

APPENDIX B

AQ/GHG - ENERGY

WEBB-A

AIR QUALITY/GREENHOUSE GAS
ANALYSIS



Technical Memorandum

To: Paige Montojo, City of Riverside

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Date: February 26, 2025

Re: Air Quality/Greenhouse Gas (GHG) Analysis for the Riverside Alive Project (PR-2024-001675), City of Riverside, California

The following air quality assessment was prepared to evaluate whether the expected criteria air pollutant emissions generated as a result of construction and operation of the proposed Project would cause exceedances of the South Coast Air Quality Management District's (SCAQMD) significance thresholds for air quality in the Project area. The greenhouse gas (GHG) assessment was prepared to evaluate whether the expected GHG emissions generated as a result of construction and operation of the proposed Project would exceed the SCAQMD draft significance thresholds. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000 *et seq.*). The methodology follows the *CEQA Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **California Emissions Estimator Model**[®] version 2022.1 (CalEEMod) was used to quantify Project-related emissions.

The SCAQMD is responsible for bringing the air quality in the areas of its jurisdiction into conformity with the federal and state air quality standards and develops and updates clean air plans, such as the regional Air Quality Management Plan (AQMP), which contain guidelines intended to support efforts to develop rules and regulations, establish permitting requirements, inspect emission sources, and enforce such measures through educational programs or fines, when necessary.

The proposed Project site is located within the South Coast Air Basin (the Basin), which is under the jurisdiction of the SCAQMD. The Basin consists of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. Regional and local air quality within the Basin is affected by topography, atmospheric inversions, and dominant onshore flows. Topographic features such as the San Gabriel, San Bernardino, and San Jacinto Mountains form natural horizontal barriers to the dispersion of air contaminants.

The Riverside Alive (Project) proposes a combination of residential, office, retail, and hotel uses; a Convention Center expansion; and new parking facilities on the northeast corner of Fifth Street and Market Street in the City of Riverside. No specific development application is currently under consideration; however, in order to determine a logical land use mix and buildout of the approximately 10-acre site, conceptual-level buildout details have been compiled.

The analysis is based on assumptions of the maximum size of the proposed land uses within the Project, which includes: a total of 168 of residential units (55 condo/townhouse and 113 apartments), 220,000 square feet of office space, 62,000 square feet of commercial retail/recreational uses (12,875 square feet of restaurant space, 20,690 square feet of grocery store, and 28,418 square feet of fitness center), 376 hotel rooms, a 189,000 square foot Convention Center expansion; and new underground parking facilities. Project construction is anticipated to occur in one phase. The Project would include off-site improvements along the Project frontage and upsizing of water and sewer pipelines within Third Street and Market Street.

Regional Significance Thresholds

The thresholds contained in the *SCAQMD CEQA Air Quality Handbook*¹ (SCAQMD 1993) and posted in a supplemental table as mass daily thresholds on SCAQMD’s website² are considered regional thresholds and are shown in **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below. These regional thresholds were developed for criteria pollutants based on the SCAQMD’s treatment of a major stationary source.

Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds

Emission Threshold	Units	VOC	NO _x	CO	SO _x	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, including but not limited to application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 or more acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of this Project’s total disturbance area (approximately 10 acres), a Fugitive Dust Control Plan or a Large Operation Notification Form will not be required.

Short-Term Analysis

Short-term emissions from Project construction were evaluated using the CalEEMod version 2022.1 program. The estimated construction period for the proposed Project is anticipated to begin no sooner than January 2026 and constructed in one phase. The default parameters within CalEEMod were used and these default values reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, assumptions relevant to model inputs for short-term construction emission estimates used are:

¹ South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

² <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>

- Construction is anticipated to begin no earlier than January 2026 with demolition of the existing surface parking facilities. Grading activities include the excavation of the underground parking structure that would be up to five levels and assumed to be approximately 965,000 square feet.

Construction Activity	Start Date	End Date	Total Working Days
Demolition	January 1, 2026	January 31, 2026	22 Days
Grading	February 1, 2026	May 31, 2026	85 Days
Building Construction	June 1, 2026	August 31, 2028	589 Days
Paving	December 1, 2026	January 31, 2027	44 Days
Architectural Coating	April 1, 2027	August 31, 2028	371 Days

- The existing surface parking and outdoor plaza area will be demolished. Approximately 10,200 tons of parking lot debris was estimated to be hauled off-site using the CalEEMod default hauling trip length of 20 miles per one-way trip. Debris material may be crushed on-site and reused as engineered fill. Therefore, crushing/processing equipment was included in demolition activities.
- Project construction of the underground parking structure is estimated to require the export of approximately 500,000 cubic yards of soil. Based on the CalEEMod default truck capacity of 16 cubic yards, approximately 368 truckloads of soil would be exported daily over a period of 85 days. The export site is currently unknown. Therefore, the CalEEMod default was utilized which assumes a hauling trip length of 20 miles per one-way trip.
- Off-site improvements would be located along the site frontage and upsizing existing potable water pipelines in Third Street between Market Street and Orange Street and upsizing sewer pipeline in Market Street from Mission Inn Avenue to 11th Street, which assume a footprint of approximately 10-foot wide and cover approximately 0.58 acres.
- The off-road equipment to be used for each activity is shown below and represents program defaults, updated by Project-specific information provided by the City. The engine tier for each piece of equipment is calculated using CalEEMod defaults for the statewide fleet average emissions factors. Each piece of equipment is assumed to operate eight (8) hours per day:

Construction Activity	Off-Road Equipment	Unit Amount
Demolition	Concrete/Industrial Saw	1
	Excavator	3
	Rubber Tired Dozers	2
	Crushing/Proc. Equipment	1
Grading	Excavator	2
	Graders	1
	Rubber Tired Dozers	1
	Rubber Tired Loader	1
	Tractor/Loader/Backhoes	3
	Scrapers	2
Building Construction	Cranes	2
	Forklifts	6
	Generator Sets	2
	Tractors/Loaders/Backhoes	6
	Welders	2
Paving	Pavers	2
	Paving Equipment	2
	Rollers	2
Architectural Coatings	Air Compressors	2

- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control during grading, the Project utilized the option of watering the Project site three times daily which achieves a control efficiency of 74 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the grading and paving activities to account for water truck trips.
- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control during the demolition phase, the Project utilized the option of watering the demolished area 2 times daily which achieves a control efficiency of 36 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the demolition activities to account for water truck trips.

The results of this analysis are summarized below.

Table 2 – Estimated Unmitigated Maximum Daily Construction Emissions

Activity	Peak Daily Emissions (lb/day) ¹					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	75	100	550	150	150	55
2026	36.40	86.80	87.7	0.41	18.30	6.87
2027	27.60	40.10	96.80	0.13	15.80	4.45
2028	27.40	34.30	92.40	0.12	15.70	4.36
Maximum	36.40	86.80	96.80	0.41	18.30	6.87
Exceeds Threshold?	No	No	No	No	No	No

Notes: See the detailed model output reports attached herewith. Numbers are the maximum of summer or winter emissions in a given year and may not match due to rounding within the model.

As shown in the table above, the emissions from construction of the Project are below the SCAQMD daily construction thresholds for all criteria pollutants.

Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. The Project is assumed to be fully operational in 2028. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic and based on the Project-specific Traffic Impact Analysis (TIA).³ Weekend trip rates were obtained from the Institute of Transportation Engineers (ITE) Manual, 11th Edition. CalEEMod defaults were utilized for trip purpose (primary, pass-by and diverted trips) for all land uses except the commercial retail uses. The pass-by trip purpose for the commercial retail uses was based on the TIA data for weekday trips and the ITE Manual (11th Edition) for the weekend trips. The TIA's internal capture trip reduction of approximately 10 percent Project wide was not applied, further providing a conservative analysis. Additionally, an aspect of Project design was incorporated into the modeling to account for the Project's location within a Transit-Oriented Development (TOD) area. TOD refers to a project built in compact, walkable areas that have easy access to public transit and ideally in a location with a mix of uses, including housing, retail offices and community facilities. Residents, employees, and visitors in these areas would have easy access to public transit which can reduce vehicle trips and associated emissions. To account for the Project site being located within a TOD, the CalEEMod measure for providing a TOD was utilized with CalEEMod default data.

³ Albert A Webb Associates. *Riverside Alive Project Traffic Study*, December 2024.

Area source emissions from the Project include stationary combustion emissions of natural gas used for space and water heating (shown in a separate row as energy), yard and landscape maintenance, consumer use of solvents and personal care products, and an average building square footage to be repainted each year. CalEEMod computes area source emissions based upon default factors and land use assumptions. CalEEMod defaults were utilized except for fireplaces and woodstoves, which are not proposed in the residential uses.

Energy sources emissions from the Project are generated as a result of activities in buildings that consume energy in the form of natural gas and electricity. CalEEMod estimates incorporate the 2019 Title 24 energy efficiency standards. However, it should be noted the most recent 2022 Title 24 standards became effective in January 2023 and apply to this Project and therefore the Project's emissions are overstated. While criteria pollutants are emitted during the generation of electricity, this electricity generation typically takes place off-site at power plants. For this reason, criteria pollutant emissions are generally associated with the power plants themselves, and not individual buildings or electricity users and as such are not reported by CalEEMod. Therefore, any regulations that reduce electricity consumption do not change the Project's criteria pollutant emissions estimates. Separate emissions were computed for both the summer and winter.

Table 3 – Estimated Unmitigated Daily Project Operation Emissions (Summer)

Source	Peak Daily Emissions (lb/day)					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	34.30	0.71	83.10	0.00	0.14	0.10
Energy	0.36	6.55	5.23	0.04	0.50	0.50
Mobile	53.80	51.50	499.00	1.34	123.00	31.80
Total	88.46	58.76	587.33	1.38	123.64	32.40
Exceeds Threshold?	Yes	Yes	Yes	No	No	No

Note: See the detailed model output report attached herewith. Emissions reported as zero are rounded and not necessarily equal to zero.

Table 4 – Estimated Unmitigated Daily Project Operation Emissions (Winter)

Source	Peak Daily Emissions (lb/day) ¹					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	21.40	0.00	0.00	0.00	0.00	0.00
Energy	0.36	6.55	5.23	0.04	0.50	0.50
Mobile	50.60	55.20	417.00	1.26	123.00	31.80
Total	72.36	61.75	422.23	1.30	123.50	32.30
Exceeds Threshold?	Yes	Yes	No	No	No	No

Note: See the detailed model output report attached herewith. Emissions reported as zero are rounded and not necessarily equal to zero.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will exceed the SCAQMD regional daily thresholds for VOC, NO_x, and CO during summer and VOC and NO_x during winter. Please see the subheading “*Recommended Mitigation Measures*” for mitigation that reduces the Project's operational emissions.

▪ Localized Significance Threshold Analysis

Background

As part of the SCAQMD's environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST) methodology⁴ that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (both short- and long-term) to sensitive receptors. SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project site is located within SRA 23.

Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO₂, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables⁵ to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or smaller. The LST methodology and tables can be used as a screening tool to determine if dispersion modeling would be necessary.

The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.⁶ Based on this SCAQMD guidance and the Project's equipment list during grading (above), Project construction will disturb approximately 5.5 acres per day. Although disturbance exceed five acres per day, per SCAQMD, the LST threshold and tables can be used as a screening tool to determine if dispersion modeling would be necessary. Therefore, the Project's on-site emissions from CalEEMod and LST-Look-Up Tables for the five-acre site were utilized as a screening-level analysis.

The LST are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The nearest sensitive receptors are the residential properties to the north on Third Street and east on Orange Street. The closest receptor distance on the LST look-up tables is 25 meters. According to LST methodology, projects with boundaries closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters. Therefore, a receptor distance of 25 meters (85 feet) was used to ensure a conservative analysis. The results are summarized below.

⁴ South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>, accessed, December 2024.)

⁵ *Ibid.*

⁶ <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2>

Table 5 –LST Results for Unmitigated Daily Construction Emissions

Pollutant	Peak Daily Emissions (lb/day)			
	NO _x	CO	PM-10	PM-2.5
LST for 5-acre site at 25 meters	270	1,577	13	8
Demolition – 2026	21.50	67.10	7.78	2.18
Grading – 2026	29.60	32.60	3.69	2.09
Building Construction – 2026	21.30	28.10	0.82	0.75
Building Construction – 2027	20.30	28.10	0.73	0.67
Building Construction – 2028	19.30	28.10	0.65	0.60
Paving - 2026	7.12	9.94	0.32	0.29
Paving – 2027	6.94	9.95	0.30	0.27
Architectural Coatings – 2027	2.22	3.00	0.05	0.05
Architectural Coatings – 2028	2.16	2.98	0.04	0.04
Maximum¹	29.60	67.10	7.78	2.09
Exceeds Threshold?	No	No	No	No

Note: ¹ Maximum emissions are the greater of either: 1) demolition or grading alone, or 2) the sum of building construction and Paving in 2026; 3) the sum of building construction and paving in 2027; 4) the sum of building construction and architectural coating in 2027; 5) the sum of building construction and architectural coating in 2028, because these activities overlap. Maximum emissions are rounded and shown in bold.

Emissions from construction of the Project will be below the LST established by SCAQMD for the Project for all construction activities.

Long-Term Analysis

This Project involves the construction of a mixed-use residential, retail and commercial development. The existing Convention Center has a diesel-powered emergency generator that is approximately 200 horsepower (hp). The proposed expansion of the Convention Center may require an upgrade to the existing emergency generator or a new emergency generator of similar size. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources or on-site mobile equipment generating on-site emissions. Because the new emergency generator would only be used during emergency power outages and routine testing, emissions would be negligible. The City will be required to obtain an SCAQMD permit to install and operate the emergency generator. The SCAQMD permitting process would ensure that the Project meets regulatory requirements through the application review process and by placing specific operating conditions on the permit such as operating hour limits. As such, no further analysis of the emergency generator was prepared.

CO Hot Spots Analysis

A carbon monoxide (CO) “hot spot” is a localized concentration of CO that is above the state or federal 1-hour or 8-hour ambient air quality standards (AAQS). Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles.

Based on the information presented below, a CO “hot spot” analysis is not needed to determine whether the addition of Project related traffic will contribute to an exceedance of either the state or federal AAQS for CO emissions in the Project area.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD’s 2003 Air Quality Management Plan (2003 AQMP)⁷ and the Revised 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan).⁸ As discussed in the 2003

⁷ SCAQMD, *2003 Air Quality Management Plan, August 1, 2003*. (Available at <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>, accessed December 2024.)

⁸ SCAQMD, *Revision to the 1992 Carbon Monoxide Attainment Plan*, September 1994. (Available at SCAQMD.)

AQMP, peak carbon monoxide concentrations reported in the 1992 CO Plan in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections (2003 AQMP Appendix V, p. V-4-32). Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of the 1992 CO Plan and subsequent plan updates and air quality management plans.

In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: Long Beach Blvd. and Imperial Highway (Lynwood); Wilshire Blvd. and Veteran Ave. (Westwood); Sunset Blvd. and Highland Ave. (Hollywood); and La Cienega Blvd. and Century Blvd. (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated in the 1992 CO Plan and subsequent 2003 AQMP was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day (2003 AQMP Appendix V, Table 4-7). The Los Angeles County Metropolitan Transportation Authority (MTA)⁹ evaluated the Level of Service (LOS) in the vicinity of the Wilshire Blvd./Veteran Ave. intersection and found it to be level E at peak morning traffic and Level F at peak afternoon traffic (MTA, Exhibit 2-5 and 2-6). The hot spot analysis was conducted at intersections subject to extremes in vehicle volumes and vehicle congestion, and did not predict any violation of CO standards. Considering Project-related traffic in the General Plan horizon year of 2045, the segment with the highest average daily trips would be approximately 27,029 on Market Street between Third Street and Fifth Street, which is lower than the values studied by SCAQMD.¹⁰ Therefore, it can reasonably be concluded that Project-related traffic would not have daily traffic volumes exceeding those at the intersections modeled in the 2003 AQMP, nor would there be any reason unique to the meteorology to conclude that intersections affected by the Project would yield higher CO concentrations if modeled in detail. Thus, the Project would not result in CO hot spots.

■ Greenhouse Gas Analysis

Greenhouse gases (GHG) are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Additionally, unlike criteria pollutants, GHG do not have adopted significance thresholds associated with them at this time. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD worked on GHG thresholds for development projects. In December 2008, the SCAQMD adopted a threshold of 10,000 metric tonnes per year of carbon dioxide equivalents (MTCO₂E/yr) for stationary source projects where SCAQMD is the lead agency. The most recent draft proposal was in September 2010¹¹ and included significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 MTCO₂E/yr, respectively. Alternatively, a lead agency has the option to use 3,000 MTCO₂E/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years.

The City of Riverside adopted the Riverside Restorative Growthprint (RRG) in 2016 that consists of the City's Economic Prosperity Action Plan (EPAP) and the Climate Action Plan (CAP) and work in conjunction to spur entrepreneurship and smart growth while advancing the City of Riverside's GHG emission reduction goals. The City's CAP provides a roadmap for the City to achieve deep GHG emissions reductions through the year 2035. The CAP prioritizes the implementation of policies that enable the City to fulfill AB 32 and SB 375 requirements. The CAP includes a baseline GHG inventory for

⁹ Metropolitan Transportation Authority, *2004 Congestion Management Plan for Los Angeles County*, Adopted July 22, 2004. (Available at <http://libraryarchives.metro.net/congestion-management-program-lacmta/2004-congestion-management-program.pdf>, accessed December 2024.)

¹⁰ Albert A Webb Associates. *Riverside Alive Project Traffic Study*, December 2024.

¹¹ [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2)

local government operations and for the community as a whole and establishes emission reduction targets consistent with State law.

A final numerical threshold for determining the significance of GHG emissions has not been established by SCAQMD for projects where they are not the lead agency. The City has also not formally adopted a numerical significance threshold for assessing impacts related to GHG emissions. However, the City of Riverside utilizes the SCAQMD significance threshold of 3,000 MTCO₂E/yr for non-industrial projects. The following analysis summarizes the CalEEMod output results for Project-related GHG emissions and presents the GHG emissions estimates for the Project for CO₂, methane (CH₄), nitrous oxide (N₂O), refrigerants (R), and CO₂E.¹²

Short-Term Analysis

Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. CalEEMod also calculates the indirect GHG emissions related to electricity consumption. (CalEEMod Version 2022.1 User’s Guide, p. 2)

Table 6 – Project Construction Equipment GHG Emissions

Year	Metric Tons per year (MT/yr)				
	Total CO ₂	Total CH ₄	Total N ₂ O	Total R	Total CO ₂ E
2026	4,036	0.09	0.45	3.62	4,176
2027	3,055	0.07	0.21	3.08	3,123
2028	2,043	0.04	0.14	1.91	2,088
Total	9,134	0.20	0.80	8.61	9,387
				Amortized	312.90

Evaluation of the table above indicates that an estimated 9,387 MTCO₂E will occur from Project construction equipment over the course of the estimated construction period. The draft SCAQMD GHG threshold Guidance document released in October 2008¹³ recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies. Therefore, the total GHG emissions from Project construction were amortized and are included in **Table 8**, below.

Long-Term Analysis

Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Landscape equipment servicing the Project site create CO₂ resulting from fuel combustion based on the Project’s land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. Hearth emissions apply to dwelling units and as stated above no fireplaces are proposed within the residential uses. **Table 8**, below, summarizes the GHG emissions from the Project’s area source emissions.

Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2019 Title 24 improvements (CalEEMod User’s Guide,

¹² CO₂E is the sum of CO₂ emissions estimated plus the sum of CH₄, N₂O, and refrigerant emissions estimated multiplied by their respective global warming potential (GWP).

¹³ [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2)

Appendix D5). However, these estimates are conservative since, as noted above, the most recent 2022 Title 24 standards became effective in January 2023 and apply to this Project. The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project.

Table 7 – Energy-Related GHG Emissions

Source	Metric Tons per year (MT/yr)				
	CO ₂	CH ₄	N ₂ O	Total R	Total CO ₂ E
Electricity	3,358	0.26	0.03	--	3,374
Natural Gas	1,302	0.12	0.00	--	1,306
Total	4,660	0.38	0.03	--	4,680

Note: Emissions reported are as zero are rounded and not necessarily equal to zero.

Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data contained in defaults or in a project-specific traffic analysis. CalEEMod also estimates the GHG emissions from refrigerant leakage from vehicle air conditioning (A/C) systems. As stated above, Project-specific TIA data was utilized for weekday trip rates and the most recent ITE Trip Generation Manual, 11th Edition, was used for weekend trip rates. Similarly, the pass-by trip purpose for the commercial retail uses was based on the TIA data for weekday trips and the ITE Manual (11th Edition) for the weekend trips. The TIA's daily internal capture trip reduction of approximately 10 percent was not applied to be conservative. In addition, the CalEEMod measure for being located within a TOD was utilized with CalEEMod default data, which reduces emissions from increased transit and pedestrian accessibility. **Table 8** shows the mobile source emissions from the Project.

Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. CalEEMod default values were used. **Table 8** shows the solid waste emissions from the Project.

Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production.

There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project's location. The total Project annual water demand was obtained from the Project's water demand estimates.¹⁴ The outdoor water demand was calculated using CalEEMod defaults based on an assumed landscape coverage of approximately 15 percent of the Project site.¹⁵ **Table 8** shows the resulting GHG emissions from water-related energy usage for the Project.

Refrigerants

Refrigerants are substances used in equipment for air conditioning (A/C) and refrigeration equipment associated with the buildings. CalEEMod automatically generates a default A/C and refrigeration equipment inventory for each project land use based on industry data from the United States Environmental Protection Agency. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions

¹⁴ Riverside Public Utilities, *Future Water Demand Estimates for the Riverside Alive Project*. July 25, 2024.

¹⁵ The estimated landscape area was conservatively based on City data for similar sites within the City. An average of 17 percent was observed and was rounded down to 15 percent.

from the lifetime estimate. Note that CalEEMod does not quantify emissions from the disposal of refrigeration and A/C equipment at the end of its lifetime. GHG emissions associated with refrigerants were calculated by CalEEMod defaults and shown in **Table 8**.

Total Project GHG Emissions

As shown on **Table 8 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 23,455.20 MTCO₂E/yr, which includes construction-related emissions amortized over a typical project life of 30 years.

Table 8 – Total Project-Related GHG Emissions

Source	Metric Tons per year (MT/yr)				
	CO ₂	CH ₄	N ₂ O	R	Total CO ₂ E
Amortized Construction	--	--	--	--	312.90
Area	37.20	0.00	0.00	--	37.30
Energy	4,660	0.38	0.03	--	4,680
Mobile	16,808	0.69	0.80	22.00	17,085
Solid Waste	103	10.3	0.00	--	359
Water	123	2.43	0.06	--	201
Refrigerants	--	--	--	780	780
Total	21,731.20	13.80	0.89	802.00	23,455.20

Note: Emissions are rounded and any reported as zero are not necessarily equal to zero.

As shown in **Table 8**, the total GHG emissions from the Project exceed the SCAQMD threshold of 3,000 MTCO₂E/yr. Please see the subheading “*Recommended Mitigation Measures*” for mitigation that reduce the Project’s operation emissions.

▪ Recommended Mitigation Measures

The following mitigation measures are recommended to reduce VOC, NO_x, CO, and GHG emissions from Project operation:

- MM AQ 1: Residential Commute Trip Reduction.** Upon a residential dwelling unit being rented or sold, the Project Sponsor or its designee shall notify and offer to the prospective tenant, as soon as it may be done, disclosure materials describing available public transit, ridesharing and non-motorized commuting opportunities available in the vicinity of the Project. Such information shall be transmitted no later than the finalization of a rental contract, lease, or purchase agreement. A draft of this disclosure shall be submitted to the City of Riverside Planning Division for review prior to the issuance of the certificate of occupancy.
- MM AQ 2: Non-Residential Commute Trip Reduction.** Prior to occupancy, the Project Sponsor or its designee shall notify and offer to the prospective tenant, as soon as it may be done, disclosure materials describing available public transit, ridesharing and non-motorized commuting opportunities available in the vicinity of the Project site. Such information shall be transmitted no later than the finalization of a lease or purchase agreement. A draft of this disclosure shall be submitted to the City of Riverside Planning Division for review prior to the issuance of the certificate of occupancy.
- MM AQ 3: Carpool/Vanpool.** Prior to occupancy, the Project Sponsor or its designee shall provide designated carpool/vanpool parking in desirable locations on the Project site to encourage employees to rideshare. Plans shall be provided to the City Building and Safety Division prior to issuance of building permits.

- MM AQ 4: Electric Vehicle Charging.** Prior to occupancy, the Project Sponsor or its designee shall facilitate future installation of electric vehicle supply equipment in accordance with Section 5.106.5.3.2, Multiple Charging Space Requirements, of the California Green Building Standards Code Part 11 by providing excess electric vehicle (EV) charging spaces than required by the CalGreen Code in effect at the time of building permit issuance. Construction plans and specifications shall be provided to the City Building and Safety Division prior to issuance of building permits.
- MM AQ 5: Non-Residential Bicycle Facilities.** Prior to occupancy, the Project Sponsor or its designee shall provide and maintain secure bicycle parking (in excess of existing code at the time of building permit), bike lockers, and personal lockers to encourage employees to bicycle to work. Shower facilities shall be provided on plans, where feasible, and as determined in coordination with the City of Riverside Planning Division prior to issuance of a building permit.
- MM AQ 6: Telecommute.** The Project Sponsor or its designee shall install broadband infrastructure or other communication technologies in office uses that encourage telecommuting and working from home. The Project Sponsor or its designee shall submit documentation to the City Building and Safety Division prior to occupancy.
- MM AQ 7: Unbundle Residential Parking Costs.** The Project Sponsor or its designee shall provide information to the residential property owner and/or property management firm about the benefits of providing unbundled, or separate, residential parking costs from property costs for rental or condo units, which allows those who wish to purchase parking spaces to do so at an additional cost. Unbundled parking costs may decrease vehicle ownership and, therefore, result in a reduction in VMT and GHG emissions. The Project Sponsor or its designee shall submit documentation to the City Planning Division prior to occupancy.
- MM AQ 8: Energy Efficient Appliances.** Where appliances are installed by Project Sponsor or its designee, Energy Star-rated appliances (or other equivalent technology) for clothes washers, dish washers, refrigerators, ceiling fans, and commercial food service equipment shall be installed. Said Energy Star-rated appliances shall be noted on the plans prior to the issuance of any building permit and verified upon final inspection.
- MM AQ 9: Solar Energy Systems.** The Project Sponsor or its designee shall install all necessary infrastructure (i.e., wiring, reinforced roofs) to allow solar photovoltaic systems on the Project site to be installed in the future, with a specified electrical generation capacity, such as equal to the building's projected energy needs. The City Building and Safety Division shall verify sizing and location before issuance of building permits.

▪ **Impacts after Mitigation**

Implementation of mitigation measures **MM AQ 1** through **MM AQ 7** reduce the Project's operational emissions of VOC, NO_x, CO, and GHG from mobile sources by encouraging the use of alternative transportation and telecommuting. **MM AQ 8** and **MM AQ 9** reduce the Project's operational emissions of VOC, NO_x, CO, and GHG from energy sources by encouraging increased use of solar energy systems and energy efficient appliances. **MM AQ 1** through **MM AQ 9** do not have quantitative reductions associated with them available in CalEEMod and given that the majority of Project-generated emissions are from mobile sources, the emissions are outside the jurisdiction and control of the Project and City. Although mitigation measures **MM AQ 1** through **MM AQ 9** will serve to potentially reduce mobile source and energy emissions, it is reasonable to assume that the amount of emissions reductions resulting from their implementation would not reduce Project emissions below the applicable SCAQMD threshold of significance.

▪ **Conclusion**

The conclusion of this analysis indicates that construction of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional or localized level. Operation of the proposed Project would exceed the criteria pollutant thresholds established by SCAQMD on a regional level after implementation of mitigation. The Project will not contribute to the creation of a CO hot spot. The Project's GHG emissions total approximately 23,455.20 MTCO₂E/yr and exceed the SCAQMD threshold of 3,000 MTCO₂E/yr after the implementation of mitigation. Should you have any questions, please contact us at (951) 686-1070.

CALEEMOD OUTPUT FILES

Riverside Alive Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Riverside Alive
Construction Start Date	1/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	14.2
Location	33.98602189921819, -117.37191543473674
County	Riverside-South Coast
City	Riverside
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5403
EDFZ	11
Electric Utility	City of Riverside
Gas Utility	Southern California Gas
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
Condo/Townhouse	55.0	Dwelling Unit	0.00	67,073	0.00	—	189	—

Apartments Mid Rise	113	Dwelling Unit	2.97	105,475	51,869	—	388	—
Hotel	376	Room	1.00	254,918	0.00	—	—	—
General Office Building	220	1000sqft	0.40	220,000	0.00	—	—	—
High Turnover (Sit Down Restaurant)	12.9	1000sqft	0.00	12,875	0.00	—	—	—
Health Club	28.4	1000sqft	0.00	28,416	0.00	—	—	—
Supermarket	20.7	1000sqft	0.00	20,690	0.00	—	—	—
Government Office Building	189	1000sqft	3.57	189,000	0.00	—	—	Convention Center Expansion
Enclosed Parking with Elevator	4.40	Acre	0.00	965,000	0.00	—	—	—
Other Asphalt Surfaces	0.58	Acre	0.58	0.00	0.00	—	—	offsites

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-3	Provide Transit-Oriented Development

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.	28.8	27.6	84.6	96.8	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,584	57,584	1.26	8.04	103	60,115

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	37.2	36.4	86.8	84.9	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,583	57,583	1.25	8.06	2.68	60,018
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.6	15.7	37.3	58.5	0.15	1.03	10.2	10.9	0.96	2.50	3.46	—	24,380	24,380	0.55	2.71	21.9	25,224
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.02	2.87	6.80	10.7	0.03	0.19	1.86	1.98	0.18	0.46	0.63	—	4,036	4,036	0.09	0.45	3.62	4,176

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.88	5.84	84.6	87.7	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,584	57,584	1.26	8.04	103	60,115
2027	28.8	27.6	35.0	96.8	0.12	0.91	14.9	15.8	0.85	3.60	4.45	—	27,138	27,138	0.58	1.80	62.0	27,751
2028	28.5	27.4	33.4	92.4	0.12	0.82	14.9	15.7	0.77	3.60	4.36	—	26,703	26,703	0.51	1.80	55.8	27,308
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	37.2	36.4	86.8	84.9	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,583	57,583	1.25	8.06	2.68	60,018
2027	28.5	27.4	40.1	81.5	0.13	1.16	14.9	15.8	1.08	3.60	4.45	—	26,117	26,117	0.62	1.80	1.61	26,670
2028	27.9	27.1	34.3	78.2	0.12	0.82	14.9	15.7	0.77	3.60	4.36	—	25,702	25,702	0.53	1.80	1.45	26,254
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.54	5.58	37.3	47.8	0.15	1.03	9.59	10.6	0.96	2.50	3.46	—	24,380	24,380	0.55	2.71	21.9	25,224
2027	16.6	15.7	25.8	58.5	0.09	0.66	10.2	10.9	0.62	2.46	3.08	—	18,454	18,454	0.42	1.27	18.6	18,863
2028	13.3	12.9	16.4	38.5	0.06	0.39	7.05	7.44	0.37	1.70	2.07	—	12,341	12,341	0.25	0.86	11.5	12,615

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.19	1.02	6.80	8.72	0.03	0.19	1.75	1.94	0.18	0.46	0.63	—	4,036	4,036	0.09	0.45	3.62	4,176
2027	3.02	2.87	4.70	10.7	0.02	0.12	1.86	1.98	0.11	0.45	0.56	—	3,055	3,055	0.07	0.21	3.08	3,123
2028	2.43	2.36	2.99	7.02	0.01	0.07	1.29	1.36	0.07	0.31	0.38	—	2,043	2,043	0.04	0.14	1.91	2,088

2.3. Construction Emissions by Year, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.88	5.84	84.6	87.7	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,584	57,584	1.26	8.04	103	60,115
2027	28.8	27.6	35.0	96.8	0.12	0.91	14.9	15.8	0.85	3.60	4.45	—	27,138	27,138	0.58	1.80	62.0	27,751
2028	28.5	27.4	33.4	92.4	0.12	0.82	14.9	15.7	0.77	3.60	4.36	—	26,703	26,703	0.51	1.80	55.8	27,308
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	37.2	36.4	86.8	84.9	0.41	2.20	16.1	18.3	2.10	4.77	6.87	—	57,583	57,583	1.25	8.06	2.68	60,018
2027	28.5	27.4	40.1	81.5	0.13	1.16	14.9	15.8	1.08	3.60	4.45	—	26,117	26,117	0.62	1.80	1.61	26,670
2028	27.9	27.1	34.3	78.2	0.12	0.82	14.9	15.7	0.77	3.60	4.36	—	25,702	25,702	0.53	1.80	1.45	26,254
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.54	5.58	37.3	47.8	0.15	1.03	9.59	10.6	0.96	2.50	3.46	—	24,380	24,380	0.55	2.71	21.9	25,224
2027	16.6	15.7	25.8	58.5	0.09	0.66	10.2	10.9	0.62	2.46	3.08	—	18,454	18,454	0.42	1.27	18.6	18,863
2028	13.3	12.9	16.4	38.5	0.06	0.39	7.05	7.44	0.37	1.70	2.07	—	12,341	12,341	0.25	0.86	11.5	12,615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.19	1.02	6.80	8.72	0.03	0.19	1.75	1.94	0.18	0.46	0.63	—	4,036	4,036	0.09	0.45	3.62	4,176
2027	3.02	2.87	4.70	10.7	0.02	0.12	1.86	1.98	0.11	0.45	0.56	—	3,055	3,055	0.07	0.21	3.08	3,123
2028	2.43	2.36	2.99	7.02	0.01	0.07	1.29	1.36	0.07	0.31	0.38	—	2,043	2,043	0.04	0.14	1.91	2,088

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.	99.4	92.4	62.6	624	1.49	1.63	131	132	1.53	33.2	34.7	762	176,477	177,239	84.2	6.82	5,134	186,509
Mit.	95.0	88.4	58.8	587	1.39	1.56	122	123	1.47	30.9	32.4	762	166,280	167,043	83.8	6.38	5,105	176,145
% Reduced	4%	4%	6%	6%	7%	4%	7%	7%	4%	7%	7%	—	6%	6%	< 0.5%	6%	1%	6%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	82.0	76.1	65.9	453	1.39	1.49	131	132	1.43	33.2	34.6	762	167,198	167,960	84.3	7.01	4,721	176,879
Mit.	77.9	72.3	61.7	422	1.30	1.42	122	123	1.37	30.9	32.3	762	157,621	158,383	84.0	6.56	4,721	167,159
% Reduced	5%	5%	6%	7%	7%	5%	7%	7%	4%	7%	7%	—	6%	6%	< 0.5%	6%	< 0.5%	5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	81.7	76.1	55.2	431	1.11	1.37	101	102	1.30	25.6	26.9	762	138,043	138,806	83.3	5.72	4,853	147,447
Mit.	78.2	73.0	51.8	406	1.03	1.32	94.0	95.3	1.25	23.9	25.1	762	130,498	131,261	83.0	5.36	4,843	139,778
% Reduced	4%	4%	6%	6%	7%	4%	7%	7%	4%	7%	7%	—	5%	5%	< 0.5%	6%	< 0.5%	5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.9	13.9	10.1	78.7	0.20	0.25	18.4	18.7	0.24	4.68	4.92	126	22,855	22,981	13.8	0.95	803	24,412
Mit.	14.3	13.3	9.46	74.1	0.19	0.24	17.2	17.4	0.23	4.35	4.58	126	21,605	21,732	13.7	0.89	802	23,142
% Reduced	4%	4%	6%	6%	7%	4%	7%	7%	4%	7%	7%	—	5%	5%	< 0.5%	6%	< 0.5%	5%

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	63.3	57.8	55.3	536	1.44	0.99	131	132	0.93	33.2	34.1	—	147,399	147,399	5.30	6.26	424	149,820
Area	35.3	34.3	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	0.00	328	328	0.01	< 0.005	—	329
Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	99.4	92.4	62.6	624	1.49	1.63	131	132	1.53	33.2	34.7	762	176,477	177,239	84.2	6.82	5,134	186,509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	59.9	54.3	59.3	448	1.35	0.99	131	132	0.93	33.2	34.1	—	138,448	138,448	5.47	6.45	11.0	140,519
Area	21.4	21.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	82.0	76.1	65.9	453	1.39	1.49	131	132	1.43	33.2	34.6	762	167,198	167,960	84.3	7.01	4,721	176,879
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	50.0	45.5	48.1	369	1.07	0.78	101	102	0.73	25.6	26.4	—	109,068	109,068	4.46	5.16	143	110,861
Area	30.9	30.2	0.49	56.9	< 0.005	0.09	—	0.09	0.07	—	0.07	0.00	225	225	0.01	< 0.005	—	225
Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	81.7	76.1	55.2	431	1.11	1.37	101	102	1.30	25.6	26.9	762	138,043	138,806	83.3	5.72	4,853	147,447	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.12	8.31	8.78	67.4	0.19	0.14	18.4	18.6	0.13	4.68	4.81	—	18,058	18,058	0.74	0.85	23.6	18,354	
Area	5.65	5.51	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	37.2	37.2	< 0.005	< 0.005	—	37.3	
Energy	0.13	0.07	1.20	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,660	4,660	0.37	0.03	—	4,680	
Water	—	—	—	—	—	—	—	—	—	—	—	23.6	99.6	123	2.43	0.06	—	201	
Waste	—	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10.3	0.00	—	359	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	780	780	
Total	14.9	13.9	10.1	78.7	0.20	0.25	18.4	18.7	0.24	4.68	4.92	126	22,855	22,981	13.8	0.95	803	24,412	

2.6. Operations Emissions by Sector, Mitigated

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	58.9	53.8	51.5	499	1.34	0.92	122	123	0.87	30.9	31.8	—	137,202	137,202	4.93	5.82	395	139,456
Area	35.3	34.3	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	0.00	328	328	0.01	< 0.005	—	329
Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	95.0	88.4	58.8	587	1.39	1.56	122	123	1.47	30.9	32.4	762	166,280	167,043	83.8	6.38	5,105	176,145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	55.8	50.6	55.2	417	1.26	0.92	122	123	0.87	30.9	31.8	—	128,870	128,870	5.09	6.01	10.2	130,798
Area	21.4	21.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	77.9	72.3	61.7	422	1.30	1.42	122	123	1.37	30.9	32.3	762	157,621	158,383	84.0	6.56	4,721	167,159
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.5	42.4	44.8	344	0.99	0.72	94.0	94.7	0.68	23.9	24.5	—	101,523	101,523	4.15	4.81	133	103,192
Area	30.9	30.2	0.49	56.9	< 0.005	0.09	—	0.09	0.07	—	0.07	0.00	225	225	0.01	< 0.005	—	225
Energy	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	28,149	28,149	2.25	0.20	—	28,266
Water	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Waste	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Total	78.2	73.0	51.8	406	1.03	1.32	94.0	95.3	1.25	23.9	25.1	762	130,498	131,261	83.0	5.36	4,843	139,778
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.49	7.74	8.18	62.7	0.18	0.13	17.2	17.3	0.12	4.35	4.48	—	16,808	16,808	0.69	0.80	22.0	17,085
Area	5.65	5.51	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	37.2	37.2	< 0.005	< 0.005	—	37.3
Energy	0.13	0.07	1.20	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,660	4,660	0.37	0.03	—	4,680
Water	—	—	—	—	—	—	—	—	—	—	—	23.6	99.6	123	2.43	0.06	—	201
Waste	—	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10.3	0.00	—	359
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	780	780
Total	14.3	13.3	9.46	74.1	0.19	0.24	17.2	17.4	0.23	4.35	4.58	126	21,605	21,732	13.7	0.89	802	23,142

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	36.8	36.2	21.5	67.1	0.03	1.43	—	1.43	1.22	—	1.22	—	3,504	3,504	0.14	0.03	—	3,516
Demolition	—	—	—	—	—	—	6.35	6.35	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.22	2.18	1.30	4.04	< 0.005	0.09	—	0.09	0.07	—	0.07	—	211	211	0.01	< 0.005	—	212
Demolition	—	—	—	—	—	—	0.38	0.38	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.40	0.24	0.74	< 0.005	0.02	—	0.02	0.01	—	0.01	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	225
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	< 0.005	63.1
Hauling	0.32	0.12	8.99	2.15	0.05	0.15	2.10	2.25	0.15	0.59	0.74	—	7,853	7,853	0.15	1.26	0.42	8,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.80
Hauling	0.02	0.01	0.55	0.13	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	473	473	0.01	0.08	0.42	496
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.24	2.24	< 0.005	< 0.005	< 0.005	2.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.3	78.3	< 0.005	0.01	0.07	82.2

3.2. Demolition (2026) - Mitigated

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	36.8	36.2	21.5	67.1	0.03	1.43	—	1.43	1.22	—	1.22	—	3,504	3,504	0.14	0.03	—	3,516
Demolition	—	—	—	—	—	—	6.35	6.35	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.22	2.18	1.30	4.04	< 0.005	0.09	—	0.09	0.07	—	0.07	—	211	211	0.01	< 0.005	—	212
Demolition	—	—	—	—	—	—	0.38	0.38	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.40	0.24	0.74	< 0.005	0.02	—	0.02	0.01	—	0.01	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	225
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	< 0.005	63.1

Hauling	0.32	0.12	8.99	2.15	0.05	0.15	2.10	2.25	0.15	0.59	0.74	—	7,853	7,853	0.15	1.26	0.42	8,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.80
Hauling	0.02	0.01	0.55	0.13	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	473	473	0.01	0.08	0.42	496
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.24	2.24	< 0.005	< 0.005	< 0.005	2.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.3	78.3	< 0.005	0.01	0.07	82.2

3.3. Grading (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	3.98	3.35	29.6	32.6	0.07	1.23	—	1.23	1.13	—	1.13	—	7,390	7,390	0.30	0.06	—	7,416
Dust From Material Movement	—	—	—	—	—	—	2.46	2.46	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm	3.98	3.35	29.6	32.6	0.07	1.23	—	1.23	1.13	—	1.13	—	7,390	7,390	0.30	0.06	—	7,416
Dust From Material Movement	—	—	—	—	—	—	2.46	2.46	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.93	0.78	6.89	7.60	0.02	0.29	—	0.29	0.26	—	0.26	—	1,721	1,721	0.07	0.01	—	1,727
Dust From Material Movement	—	—	—	—	—	—	0.57	0.57	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.26	1.39	< 0.005	0.05	—	0.05	0.05	—	0.05	—	285	285	0.01	< 0.005	—	286
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.11	0.10	1.80	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	345	345	0.01	0.01	1.17	350

Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	0.16	63.2
Hauling	2.12	0.81	54.9	13.4	0.34	0.97	13.3	14.3	0.97	3.73	4.70	—	49,788	49,788	0.94	7.96	102	52,286
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.11	1.36	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	< 0.005	63.1
Hauling	2.06	0.75	57.1	13.7	0.34	0.97	13.3	14.3	0.97	3.73	4.70	—	49,816	49,816	0.94	7.98	2.65	52,219
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	74.8	74.8	< 0.005	< 0.005	0.12	75.8
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	0.02	14.7
Hauling	0.49	0.18	13.4	3.15	0.08	0.23	3.08	3.30	0.23	0.86	1.09	—	11,597	11,597	0.22	1.86	10.3	12,166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.32	2.32	< 0.005	< 0.005	< 0.005	2.43
Hauling	0.09	0.03	2.44	0.57	0.01	0.04	0.56	0.60	0.04	0.16	0.20	—	1,920	1,920	0.04	0.31	1.70	2,014

3.4. Grading (2026) - Mitigated

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	3.98	3.35	29.6	32.6	0.07	1.23	—	1.23	1.13	—	1.13	—	7,390	7,390	0.30	0.06	—	7,416

Dust From Material Movement	—	—	—	—	—	—	2.46	2.46	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.98	3.35	29.6	32.6	0.07	1.23	—	1.23	1.13	—	1.13	—	7,390	7,390	0.30	0.06	—	7,416
Dust From Material Movement	—	—	—	—	—	—	2.46	2.46	—	0.96	0.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.93	0.78	6.89	7.60	0.02	0.29	—	0.29	0.26	—	0.26	—	1,721	1,721	0.07	0.01	—	1,727
Dust From Material Movement	—	—	—	—	—	—	0.57	0.57	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.26	1.39	< 0.005	0.05	—	0.05	0.05	—	0.05	—	285	285	0.01	< 0.005	—	286

Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.11	0.10	1.80	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	345	345	0.01	0.01	1.17	350
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	0.16	63.2
Hauling	2.12	0.81	54.9	13.4	0.34	0.97	13.3	14.3	0.97	3.73	4.70	—	49,788	49,788	0.94	7.96	102	52,286
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.11	1.36	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	< 0.005	63.1
Hauling	2.06	0.75	57.1	13.7	0.34	0.97	13.3	14.3	0.97	3.73	4.70	—	49,816	49,816	0.94	7.98	2.65	52,219
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	74.8	74.8	< 0.005	< 0.005	0.12	75.8
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	0.02	14.7
Hauling	0.49	0.18	13.4	3.15	0.08	0.23	3.08	3.30	0.23	0.86	1.09	—	11,597	11,597	0.22	1.86	10.3	12,166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.02	12.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.32	2.32	< 0.005	< 0.005	< 0.005	2.43
Hauling	0.09	0.03	2.44	0.57	0.01	0.04	0.56	0.60	0.04	0.16	0.20	—	1,920	1,920	0.04	0.31	1.70	2,014

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	2.76	2.31	21.3	28.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.76	2.31	21.3	28.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.16	0.97	8.94	11.8	0.02	0.34	—	0.34	0.32	—	0.32	—	2,203	2,203	0.09	0.02	—	2,210
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.21	0.18	1.63	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.71	3.34	3.09	56.6	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,870	10,870	0.46	0.37	36.8	11,029
Vendor	0.41	0.19	9.49	2.94	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,883	8,883	0.20	1.37	24.3	9,321
Hauling	0.00	0.00	0.00	0.00	0.00	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	3.54	3.15	3.45	42.9	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,995	9,995	0.16	0.39	0.96	10,116
Vendor	0.39	0.18	9.89	3.02	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,889	8,889	0.20	1.37	0.63	9,304
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.47	1.31	1.58	18.8	0.00	0.00	4.28	4.28	0.00	1.00	1.00	—	4,239	4,239	0.07	0.16	6.66	4,296
Vendor	0.17	0.07	4.16	1.25	0.03	0.06	1.05	1.10	0.06	0.29	0.35	—	3,721	3,721	0.08	0.57	4.37	3,899
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.27	0.24	0.29	3.43	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	702	702	0.01	0.03	1.10	711
Vendor	0.03	0.01	0.76	0.23	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	616	616	0.01	0.10	0.72	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

3.6. Building Construction (2026) - Mitigated

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 Equipm	2.76	2.31	21.3	28.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.76	2.31	21.3	28.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.16	0.97	8.94	11.8	0.02	0.34	—	0.34	0.32	—	0.32	—	2,203	2,203	0.09	0.02	—	2,210
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.21	0.18	1.63	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.71	3.34	3.09	56.6	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,870	10,870	0.46	0.37	36.8	11,029
Vendor	0.41	0.19	9.49	2.94	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,883	8,883	0.20	1.37	24.3	9,321
Hauling	0.00	0.00	0.00	0.00	0.00	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	3.54	3.15	3.45	42.9	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,995	9,995	0.16	0.39	0.96	10,116
Vendor	0.39	0.18	9.89	3.02	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,889	8,889	0.20	1.37	0.63	9,304
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.47	1.31	1.58	18.8	0.00	0.00	4.28	4.28	0.00	1.00	1.00	—	4,239	4,239	0.07	0.16	6.66	4,296
Vendor	0.17	0.07	4.16	1.25	0.03	0.06	1.05	1.10	0.06	0.29	0.35	—	3,721	3,721	0.08	0.57	4.37	3,899
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.27	0.24	0.29	3.43	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	702	702	0.01	0.03	1.10	711
Vendor	0.03	0.01	0.76	0.23	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	616	616	0.01	0.10	0.72	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

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	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.90	1.59	14.5	20.1	0.04	0.52	—	0.52	0.48	—	0.48	—	3,757	3,757	0.15	0.03	—	3,770
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.35	0.29	2.65	3.66	0.01	0.10	—	0.10	0.09	—	0.09	—	622	622	0.03	0.01	—	624
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.55	3.16	2.74	52.4	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,668	10,668	0.12	0.37	33.1	10,816
Vendor	0.39	0.18	9.12	2.86	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,721	8,721	0.20	1.31	22.2	9,137
Hauling	0.00	0.00	0.00	0.00	0.00	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	3.38	2.99	3.09	39.6	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,812	9,812	0.14	0.37	0.86	9,927
Vendor	0.39	0.17	9.53	2.95	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,727	8,727	0.20	1.31	0.58	9,122
Hauling	0.00	0.00	0.00	0.00	0.00	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	2.41	2.13	2.44	29.7	0.00	0.00	7.29	7.29	0.00	1.71	1.71	—	7,097	7,097	0.10	0.27	10.2	7,189
Vendor	0.28	0.13	6.79	2.08	0.05	0.09	1.79	1.88	0.09	0.49	0.59	—	6,231	6,231	0.15	0.93	6.85	6,520
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.44	0.39	0.45	5.41	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,175	1,175	0.02	0.04	1.69	1,190
Vendor	0.05	0.02	1.24	0.38	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,032	1,032	0.02	0.15	1.13	1,079
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

3.8. Building Construction (2027) - Mitigated

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	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.90	1.59	14.5	20.1	0.04	0.52	—	0.52	0.48	—	0.48	—	3,757	3,757	0.15	0.03	—	3,770
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.35	0.29	2.65	3.66	0.01	0.10	—	0.10	0.09	—	0.09	—	622	622	0.03	0.01	—	624
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.55	3.16	2.74	52.4	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,668	10,668	0.12	0.37	33.1	10,816
Vendor	0.39	0.18	9.12	2.86	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,721	8,721	0.20	1.31	22.2	9,137
Hauling	0.00	0.00	0.00	0.00	0.00	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	3.38	2.99	3.09	39.6	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,812	9,812	0.14	0.37	0.86	9,927
Vendor	0.39	0.17	9.53	2.95	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,727	8,727	0.20	1.31	0.58	9,122
Hauling	0.00	0.00	0.00	0.00	0.00	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	2.41	2.13	2.44	29.7	0.00	0.00	7.29	7.29	0.00	1.71	1.71	—	7,097	7,097	0.10	0.27	10.2	7,189
Vendor	0.28	0.13	6.79	2.08	0.05	0.09	1.79	1.88	0.09	0.49	0.59	—	6,231	6,231	0.15	0.93	6.85	6,520
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.44	0.39	0.45	5.41	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,175	1,175	0.02	0.04	1.69	1,190
Vendor	0.05	0.02	1.24	0.38	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,032	1,032	0.02	0.15	1.13	1,079

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	0.00
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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	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	1.22	1.02	9.23	13.4	0.02	0.31	—	0.31	0.29	—	0.29	—	2,512	2,512	0.10	0.02	—	2,520	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipm	0.22	0.19	1.68	2.45	< 0.005	0.06	—	0.06	0.05	—	0.05	—	416	416	0.02	< 0.005	—	417
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.43	3.06	2.72	48.8	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,469	10,469	0.12	0.37	29.7	10,613
Vendor	0.39	0.18	8.68	2.80	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,523	8,523	0.14	1.31	20.2	8,936
Hauling	0.00	0.00	0.00	0.00	0.00	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	2.95	2.88	3.08	36.9	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,630	9,630	0.14	0.37	0.77	9,746
Vendor	0.38	0.17	9.09	2.87	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,530	8,530	0.14	1.31	0.52	8,923
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.40	1.37	1.47	18.6	0.00	0.00	4.87	4.87	0.00	1.14	1.14	—	4,656	4,656	0.07	0.18	6.12	4,717
Vendor	0.19	0.08	4.36	1.35	0.03	0.06	1.20	1.26	0.06	0.33	0.39	—	4,071	4,071	0.07	0.62	4.16	4,263
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.26	0.25	0.27	3.39	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	771	771	0.01	0.03	1.01	781
Vendor	0.03	0.02	0.80	0.25	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	674	674	0.01	0.10	0.69	706
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.22	1.02	9.23	13.4	0.02	0.31	—	0.31	0.29	—	0.29	—	2,512	2,512	0.10	0.02	—	2,520
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.19	1.68	2.45	< 0.005	0.06	—	0.06	0.05	—	0.05	—	416	416	0.02	< 0.005	—	417
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.43	3.06	2.72	48.8	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	10,469	10,469	0.12	0.37	29.7	10,613
Vendor	0.39	0.18	8.68	2.80	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,523	8,523	0.14	1.31	20.2	8,936
Hauling	0.00	0.00	0.00	0.00	0.00	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	2.95	2.88	3.08	36.9	0.00	0.00	10.3	10.3	0.00	2.41	2.41	—	9,630	9,630	0.14	0.37	0.77	9,746
Vendor	0.38	0.17	9.09	2.87	0.07	0.13	2.52	2.66	0.13	0.70	0.83	—	8,530	8,530	0.14	1.31	0.52	8,923
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.40	1.37	1.47	18.6	0.00	0.00	4.87	4.87	0.00	1.14	1.14	—	4,656	4,656	0.07	0.18	6.12	4,717
Vendor	0.19	0.08	4.36	1.35	0.03	0.06	1.20	1.26	0.06	0.33	0.39	—	4,071	4,071	0.07	0.62	4.16	4,263
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.26	0.25	0.27	3.39	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	771	771	0.01	0.03	1.01	781
Vendor	0.03	0.02	0.80	0.25	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	674	674	0.01	0.10	0.69	706
Hauling	0.00	0.00	0.00	0.00	0.00	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 (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.05	0.43	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	91.6	91.6	< 0.005	< 0.005	—	92.0
Paving	< 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	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	< 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	193

Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	90.4	90.4	< 0.005	0.01	0.01	94.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.02	11.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.48	5.48	< 0.005	< 0.005	0.01	5.74
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.93	1.93	< 0.005	< 0.005	< 0.005	1.96
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2026) - Mitigated

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	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.05	0.43	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	91.6	91.6	< 0.005	< 0.005	—	92.0
Paving	< 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	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	< 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	193
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	90.4	90.4	< 0.005	0.01	0.01	94.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.02	11.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.48	5.48	< 0.005	< 0.005	0.01	5.74
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.93	1.93	< 0.005	< 0.005	< 0.005	1.96
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	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. Paving (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.42	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	91.7	91.7	< 0.005	< 0.005	—	92.0
Paving	< 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	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	< 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.7	88.7	< 0.005	0.01	0.01	92.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.38	5.38	< 0.005	< 0.005	0.01	5.63
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2027) - Mitigated

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 Equipm	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.42	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	91.7	91.7	< 0.005	< 0.005	—	92.0
Paving	< 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	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	< 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.7	88.7	< 0.005	0.01	0.01	92.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.38	5.38	< 0.005	< 0.005	0.01	5.63
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	0.00	0.00	0.00	0.00	0.00	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 (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	0.37	0.30	2.22	3.00	< 0.005	0.05	—	0.05	0.05	—	0.05	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.37	0.30	2.22	3.00	< 0.005	0.05	—	0.05	0.05	—	0.05	—	356	356	0.01	< 0.005	—	357

Architectural Coating	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.16	1.19	1.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	192	192	0.01	< 0.005	—	192
Architectural Coatings	11.3	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.7	31.7	< 0.005	< 0.005	—	31.8
Architectural Coatings	2.07	2.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.71	0.63	0.55	10.5	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	2,134	2,134	0.02	0.07	6.63	2,163
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	0.68	0.60	0.62	7.91	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	1,962	1,962	0.03	0.07	0.17	1,985
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	0.36	0.32	0.37	4.47	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	1,069	1,069	0.01	0.04	1.54	1,083
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	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	177	177	< 0.005	0.01	0.25	179
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

3.16. Architectural Coating (2027) - Mitigated

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	0.30	2.22	3.00	< 0.005	0.05	—	0.05	0.05	—	0.05	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.37	0.30	2.22	3.00	< 0.005	0.05	—	0.05	0.05	—	0.05	—	356	356	0.01	< 0.005	—	357	
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.16	1.19	1.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	192	192	0.01	< 0.005	—	192	
Architectural Coatings	11.3	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.7	31.7	< 0.005	< 0.005	—	31.8	
Architectural Coatings	2.07	2.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.63	0.55	10.5	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	2,134	2,134	0.02	0.07	6.63	2,163
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	0.68	0.60	0.62	7.91	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	1,962	1,962	0.03	0.07	0.17	1,985
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	0.36	0.32	0.37	4.47	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	1,069	1,069	0.01	0.04	1.54	1,083
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	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	177	177	< 0.005	0.01	0.25	179
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 (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	0.35	0.29	2.16	2.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.35	0.29	2.16	2.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.17	0.14	1.03	1.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	170	170	0.01	< 0.005	—	171
Architectural Coatings	10.1	10.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.19	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.1	28.1	< 0.005	< 0.005	—	28.2

Architect Coatings	1.84	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.69	0.61	0.54	9.76	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	2,094	2,094	0.02	0.07	5.94	2,123
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	0.59	0.58	0.62	7.38	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	1,926	1,926	0.03	0.07	0.15	1,949
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	0.28	0.27	0.29	3.71	0.00	0.00	0.97	0.97	0.00	0.23	0.23	—	931	931	0.01	0.04	1.22	943
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	0.05	0.05	0.05	0.68	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	154	154	< 0.005	0.01	0.20	156
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

3.18. Architectural Coating (2028) - Mitigated

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	0.35	0.29	2.16	2.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.35	0.29	2.16	2.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	21.1	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.17	0.14	1.03	1.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	170	170	0.01	< 0.005	—	171
Architectural Coatings	10.1	10.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.19	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.1	28.1	< 0.005	< 0.005	—	28.2
Architectural Coatings	1.84	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.69	0.61	0.54	9.76	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	2,094	2,094	0.02	0.07	5.94	2,123
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	0.59	0.58	0.62	7.38	0.00	0.00	2.06	2.06	0.00	0.48	0.48	—	1,926	1,926	0.03	0.07	0.15	1,949
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	0.28	0.27	0.29	3.71	0.00	0.00	0.97	0.97	0.00	0.23	0.23	—	931	931	0.01	0.04	1.22	943
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	0.05	0.05	0.05	0.68	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	154	154	< 0.005	0.01	0.20	156
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.57	1.43	1.42	13.8	0.04	0.03	3.39	3.42	0.02	0.86	0.89	—	3,818	3,818	0.13	0.16	11.0	3,881
Apartments Mid Rise	2.19	1.99	1.97	19.2	0.05	0.04	4.73	4.76	0.03	1.20	1.23	—	5,319	5,319	0.19	0.22	15.3	5,406
Hotel	12.7	11.5	11.0	107	0.29	0.20	26.1	26.3	0.19	6.62	6.81	—	29,384	29,384	1.06	1.25	84.5	29,866
General Office Building	9.95	9.07	8.68	84.0	0.23	0.16	20.5	20.7	0.15	5.20	5.35	—	23,094	23,094	0.83	0.98	66.4	23,473
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	30.0	27.4	26.2	254	0.68	0.47	61.9	62.4	0.44	15.7	16.2	—	69,732	69,732	2.51	2.96	201	70,878
Government Office Building	6.91	6.31	6.03	58.4	0.16	0.11	14.2	14.4	0.10	3.62	3.72	—	16,051	16,051	0.58	0.68	46.2	16,315

Enclosed	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
Total	63.3	57.8	55.3	536	1.44	0.99	131	132	0.93	33.2	34.1	—	147,399	147,399	5.30	6.26	424	149,820	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.49	1.35	1.52	11.5	0.04	0.03	3.39	3.42	0.02	0.86	0.89	—	3,586	3,586	0.14	0.17	0.29	3,639	
Apartments Mid Rise	2.08	1.88	2.12	16.0	0.05	0.04	4.73	4.76	0.03	1.20	1.23	—	4,996	4,996	0.19	0.23	0.40	5,070	
Hotel	12.0	10.9	11.8	89.3	0.27	0.20	26.1	26.3	0.19	6.62	6.81	—	27,599	27,599	1.09	1.29	2.19	28,013	
General Office Building	9.41	8.54	9.30	70.2	0.21	0.16	20.5	20.7	0.15	5.20	5.35	—	21,692	21,692	0.86	1.01	1.72	22,016	
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	28.4	25.8	28.1	212	0.64	0.47	61.9	62.4	0.44	15.7	16.2	—	65,498	65,498	2.59	3.06	5.20	66,479	
Government Office Building	6.54	5.93	6.46	48.8	0.15	0.11	14.2	14.4	0.10	3.62	3.72	—	15,076	15,076	0.60	0.70	1.20	15,302	
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
Total	59.9	54.3	59.3	448	1.35	0.99	131	132	0.93	33.2	34.1	—	138,448	138,448	5.47	6.45	11.0	140,519	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Condo/Townhouse	0.24	0.22	0.25	1.94	0.01	< 0.005	0.55	0.55	< 0.005	0.14	0.14	—	535	535	0.02	0.02	0.70	543	
Apartments Mid Rise	0.37	0.33	0.38	2.94	0.01	0.01	0.83	0.84	0.01	0.21	0.22	—	810	810	0.03	0.04	1.06	823	
Hotel	2.07	1.88	2.10	16.1	0.05	0.03	4.51	4.54	0.03	1.14	1.18	—	4,406	4,406	0.17	0.21	5.77	4,477	
General Office Building	1.28	1.16	1.30	9.99	0.03	0.02	2.79	2.81	0.02	0.71	0.73	—	2,728	2,728	0.11	0.13	3.57	2,772	
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Supermarket	3.98	3.65	3.55	27.1	0.08	0.06	7.18	7.24	0.05	1.82	1.87	—	7,059	7,059	0.31	0.34	9.19	7,178	
Government Office Building	1.19	1.07	1.20	9.23	0.03	0.02	2.58	2.60	0.02	0.65	0.67	—	2,519	2,519	0.10	0.12	3.30	2,560	
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	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	9.12	8.31	8.78	67.4	0.19	0.14	18.4	18.6	0.13	4.68	4.81	—	18,058	18,058	0.74	0.85	23.6	18,354	

4.1.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.47	1.33	1.32	12.8	0.03	0.02	3.16	3.18	0.02	0.80	0.82	—	3,554	3,554	0.13	0.15	10.2	3,612
Apartments Mid Rise	2.04	1.86	1.84	17.9	0.05	0.03	4.40	4.43	0.03	1.12	1.15	—	4,951	4,951	0.17	0.21	14.3	5,032
Hotel	11.8	10.7	10.3	99.5	0.27	0.18	24.3	24.5	0.17	6.16	6.33	—	27,351	27,351	0.98	1.16	78.6	27,800
General Office Building	9.26	8.45	8.08	78.2	0.21	0.14	19.1	19.2	0.14	4.84	4.98	—	21,496	21,496	0.77	0.91	61.8	21,850
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	28.0	25.5	24.4	236	0.63	0.44	57.6	58.1	0.41	14.6	15.0	—	64,908	64,908	2.34	2.76	187	65,975
Government Office Building	6.44	5.87	5.61	54.4	0.15	0.10	13.3	13.4	0.09	3.37	3.46	—	14,941	14,941	0.54	0.63	43.0	15,186
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	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	0.00
Total	58.9	53.8	51.5	499	1.34	0.92	122	123	0.87	30.9	31.8	—	137,202	137,202	4.93	5.82	395	139,456	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Condo/Townhouse	1.39	1.25	1.41	10.7	0.03	0.02	3.16	3.18	0.02	0.80	0.82	—	3,338	3,338	0.13	0.15	0.27	3,388	
Apartments Mid Rise	1.93	1.75	1.97	14.9	0.05	0.03	4.40	4.43	0.03	1.12	1.15	—	4,650	4,650	0.18	0.22	0.37	4,719	
Hotel	11.1	10.1	11.0	83.1	0.25	0.18	24.3	24.5	0.17	6.16	6.33	—	25,690	25,690	1.02	1.20	2.04	26,075	
General Office Building	8.76	7.95	8.65	65.3	0.20	0.14	19.1	19.2	0.14	4.84	4.98	—	20,191	20,191	0.80	0.94	1.60	20,493	
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Supermarket	26.5	24.0	26.1	197	0.60	0.44	57.6	58.1	0.41	14.6	15.0	—	60,967	60,967	2.41	2.84	4.84	61,880	
Government Office Building	6.09	5.52	6.02	45.4	0.14	0.10	13.3	13.4	0.09	3.37	3.46	—	14,034	14,034	0.56	0.65	1.11	14,244	
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	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	55.8	50.6	55.2	417	1.26	0.92	122	123	0.87	30.9	31.8	—	128,870	128,870	5.09	6.01	10.2	130,798
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.22	0.20	0.23	1.80	0.01	< 0.005	0.51	0.51	< 0.005	0.13	0.13	—	498	498	0.02	0.02	0.65	506
Apartments Mid Rise	0.34	0.31	0.36	2.73	0.01	0.01	0.77	0.78	0.01	0.20	0.20	—	754	754	0.03	0.03	0.99	766
Hotel	1.93	1.75	1.95	15.0	0.04	0.03	4.19	4.23	0.03	1.06	1.09	—	4,101	4,101	0.16	0.19	5.37	4,167
General Office Building	1.19	1.08	1.21	9.30	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,539	2,539	0.10	0.12	3.33	2,581
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	3.70	3.40	3.30	25.3	0.07	0.05	6.68	6.73	0.05	1.70	1.74	—	6,571	6,571	0.29	0.32	8.56	6,682
Government Office Building	1.10	1.00	1.12	8.59	0.03	0.02	2.40	2.42	0.02	0.61	0.63	—	2,345	2,345	0.09	0.11	3.07	2,383
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	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	8.49	7.74	8.18	62.7	0.18	0.13	17.2	17.3	0.12	4.35	4.48	—	16,808	16,808	0.69	0.80	22.0	17,085

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	474	474	0.04	< 0.005	—	477
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	753	753	0.06	0.01	—	756
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	4,834	4,834	0.37	0.05	—	4,856
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,517	4,517	0.35	0.04	—	4,538
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	532	532	0.04	< 0.005	—	535
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	320	320	0.02	< 0.005	—	322
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	781	781	0.06	0.01	—	785
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,880	3,880	0.30	0.04	—	3,898
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	4,193	4,193	0.32	0.04	—	4,212

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,284	20,284	1.56	0.19	—	20,379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	474	474	0.04	< 0.005	—	477
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	753	753	0.06	0.01	—	756
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	4,834	4,834	0.37	0.05	—	4,856
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,517	4,517	0.35	0.04	—	4,538
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	532	532	0.04	< 0.005	—	535
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	320	320	0.02	< 0.005	—	322
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	781	781	0.06	0.01	—	785
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,880	3,880	0.30	0.04	—	3,898
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	4,193	4,193	0.32	0.04	—	4,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	20,284	20,284	1.56	0.19	—	20,379
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	78.5	78.5	0.01	< 0.005	—	78.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.01	< 0.005	—	125
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	800	800	0.06	0.01	—	804
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	748	748	0.06	0.01	—	751
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	88.1	88.1	0.01	< 0.005	—	88.5
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	53.0	53.0	< 0.005	< 0.005	—	53.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	129	129	0.01	< 0.005	—	130
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	642	642	0.05	0.01	—	645
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	694	694	0.05	0.01	—	697
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,358	3,358	0.26	0.03	—	3,374

4.2.2. Electricity Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	474	474	0.04	< 0.005	—	477
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	753	753	0.06	0.01	—	756
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	4,834	4,834	0.37	0.05	—	4,856
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,517	4,517	0.35	0.04	—	4,538
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	532	532	0.04	< 0.005	—	535
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	320	320	0.02	< 0.005	—	322
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	781	781	0.06	0.01	—	785
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,880	3,880	0.30	0.04	—	3,898
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	4,193	4,193	0.32	0.04	—	4,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	20,284	20,284	1.56	0.19	—	20,379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	474	474	0.04	< 0.005	—	477
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	753	753	0.06	0.01	—	756
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	4,834	4,834	0.37	0.05	—	4,856
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,517	4,517	0.35	0.04	—	4,538
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	532	532	0.04	< 0.005	—	535
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	320	320	0.02	< 0.005	—	322
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	781	781	0.06	0.01	—	785
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,880	3,880	0.30	0.04	—	3,898
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	4,193	4,193	0.32	0.04	—	4,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,284	20,284	1.56	0.19	—	20,379
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	78.5	78.5	0.01	< 0.005	—	78.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.01	< 0.005	—	125
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	800	800	0.06	0.01	—	804
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	748	748	0.06	0.01	—	751
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	88.1	88.1	0.01	< 0.005	—	88.5
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	53.0	53.0	< 0.005	< 0.005	—	53.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	129	129	0.01	< 0.005	—	130
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	642	642	0.05	0.01	—	645
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	694	694	0.05	0.01	—	697
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,358	3,358	0.26	0.03	—	3,374

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.03	0.02	0.29	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	368	368	0.03	< 0.005	—	369
Apartments Mid Rise	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	467	467	0.04	< 0.005	—	468
Hotel	0.23	0.11	2.05	1.72	0.01	0.16	—	0.16	0.16	—	0.16	—	2,441	2,441	0.22	< 0.005	—	2,448
General Office Building	0.18	0.09	1.63	1.37	0.01	0.12	—	0.12	0.12	—	0.12	—	1,945	1,945	0.17	< 0.005	—	1,950
High Turnover (Sit Down Restaurant)	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	471	471	0.04	< 0.005	—	472
Health Club	0.04	0.02	0.33	0.28	< 0.005	0.02	—	0.02	0.02	—	0.02	—	391	391	0.03	< 0.005	—	392
Supermarket	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	0.01	< 0.005	—	112
Government Office Building	0.15	0.08	1.40	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,671	1,671	0.15	< 0.005	—	1,676
Enclosed Parking with Elevator	0.00	0.00	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	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	7,865	7,865	0.70	0.01	—	7,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T	0.03	0.02	0.29	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	368	368	0.03	< 0.005	—	369
Apartments Mid Rise	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	467	467	0.04	< 0.005	—	468
Hotel	0.23	0.11	2.05	1.72	0.01	0.16	—	0.16	0.16	—	0.16	—	2,441	2,441	0.22	< 0.005	—	2,448
General Office Building	0.18	0.09	1.63	1.37	0.01	0.12	—	0.12	0.12	—	0.12	—	1,945	1,945	0.17	< 0.005	—	1,950
High Turnover (Sit Down Restaurant)	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	471	471	0.04	< 0.005	—	472
Health Club	0.04	0.02	0.33	0.28	< 0.005	0.02	—	0.02	0.02	—	0.02	—	391	391	0.03	< 0.005	—	392
Supermarket	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	0.01	< 0.005	—	112
Government Office Building	0.15	0.08	1.40	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,671	1,671	0.15	< 0.005	—	1,676
Enclosed Parking with Elevator	0.00	0.00	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	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	7,865	7,865	0.70	0.01	—	7,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.8	60.8	0.01	< 0.005	—	61.0
Apartments Mid Rise	0.01	< 0.005	0.07	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.3	77.3	0.01	< 0.005	—	77.5

Hotel	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	404	404	0.04	< 0.005	—	405
General Office Building	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	322	322	0.03	< 0.005	—	323
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.9	77.9	0.01	< 0.005	—	78.1
Health Club	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	64.9
Supermarket	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
Government Office Building	0.03	0.01	0.26	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	277	277	0.02	< 0.005	—	277
Enclosed Parking with Elevator	0.00	0.00	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	0.13	0.07	1.20	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,302	1,302	0.12	< 0.005	—	1,306

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	0.03	0.02	0.29	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	368	368	0.03	< 0.005	—	369
Apartments Mid Rise	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	467	467	0.04	< 0.005	—	468
Hotel	0.23	0.11	2.05	1.72	0.01	0.16	—	0.16	0.16	—	0.16	—	2,441	2,441	0.22	< 0.005	—	2,448
General Office Building	0.18	0.09	1.63	1.37	0.01	0.12	—	0.12	0.12	—	0.12	—	1,945	1,945	0.17	< 0.005	—	1,950
High Turnover (Sit Down Restaurant)	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	471	471	0.04	< 0.005	—	472
Health Club	0.04	0.02	0.33	0.28	< 0.005	0.02	—	0.02	0.02	—	0.02	—	391	391	0.03	< 0.005	—	392
Supermarket	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	0.01	< 0.005	—	112
Government Office Building	0.15	0.08	1.40	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,671	1,671	0.15	< 0.005	—	1,676
Enclosed Parking with Elevator	0.00	0.00	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	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	7,865	7,865	0.70	0.01	—	7,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.03	0.02	0.29	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	368	368	0.03	< 0.005	—	369

Apartme Mid Rise	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	467	467	0.04	< 0.005	—	468
Hotel	0.23	0.11	2.05	1.72	0.01	0.16	—	0.16	0.16	—	0.16	—	2,441	2,441	0.22	< 0.005	—	2,448
General Office Building	0.18	0.09	1.63	1.37	0.01	0.12	—	0.12	0.12	—	0.12	—	1,945	1,945	0.17	< 0.005	—	1,950
High Turnover (Sit Down Restaurant)	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	471	471	0.04	< 0.005	—	472
Health Club	0.04	0.02	0.33	0.28	< 0.005	0.02	—	0.02	0.02	—	0.02	—	391	391	0.03	< 0.005	—	392
Superm arket	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	0.01	< 0.005	—	112
Govern ment Office Building	0.15	0.08	1.40	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,671	1,671	0.15	< 0.005	—	1,676
Enclose d Parking with Elevator	0.00	0.00	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	0.73	0.36	6.55	5.23	0.04	0.50	—	0.50	0.50	—	0.50	—	7,865	7,865	0.70	0.01	—	7,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.8	60.8	0.01	< 0.005	—	61.0
Apartme nts Mid Rise	0.01	< 0.005	0.07	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.3	77.3	0.01	< 0.005	—	77.5
Hotel	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	404	404	0.04	< 0.005	—	405

General Office Building	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	322	322	0.03	< 0.005	—	323
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.9	77.9	0.01	< 0.005	—	78.1
Health Club	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	64.9
Supermarket	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
Government Office Building	0.03	0.01	0.26	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	277	277	0.02	< 0.005	—	277
Enclosed Parking with Elevator	0.00	0.00	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	0.13	0.07	1.20	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,302	1,302	0.12	< 0.005	—	1,306

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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consum Products	19.2	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	2.14	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipm ent	14.0	12.9	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	—	328	328	0.01	< 0.005	—	329
Total	35.3	34.3	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	0.00	328	328	0.01	< 0.005	—	329
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	19.2	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	2.14	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	21.4	21.4	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	3.51	3.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	0.39	0.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	1.75	1.61	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Total	5.65	5.51	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	37.2	37.2	< 0.005	< 0.005	—	37.3

4.3.2. Mitigated

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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	19.2	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.14	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	14.0	12.9	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	—	328	328	0.01	< 0.005	—	329
Total	35.3	34.3	0.71	83.1	< 0.005	0.14	—	0.14	0.10	—	0.10	0.00	328	328	0.01	< 0.005	—	329
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	19.2	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	2.14	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	21.4	21.4	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	3.51	3.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.39	0.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.75	1.61	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Total	5.65	5.51	0.09	10.4	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	37.2	37.2	< 0.005	< 0.005	—	37.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	24.7	103	128	2.54	0.06	—	210
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	48.3	208	256	4.97	0.12	—	416

Hotel	—	—	—	—	—	—	—	—	—	—	—	41.2	172	214	4.24	0.10	—	350
General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.9	49.6	61.5	1.22	0.03	—	101
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	3.22	13.5	16.7	0.33	0.01	—	27.3
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.1	54.8	67.9	1.35	0.03	—	111
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	24.7	103	128	2.54	0.06	—	210
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	48.3	208	256	4.97	0.12	—	416
Hotel	—	—	—	—	—	—	—	—	—	—	—	41.2	172	214	4.24	0.10	—	350

General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.9	49.6	61.5	1.22	0.03	—	101
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	3.22	13.5	16.7	0.33	0.01	—	27.3
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.1	54.8	67.9	1.35	0.03	—	111
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	4.09	17.1	21.2	0.42	0.01	—	34.8
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.99	34.5	42.5	0.82	0.02	—	68.9
Hotel	—	—	—	—	—	—	—	—	—	—	—	6.82	28.5	35.4	0.70	0.02	—	57.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.96	8.21	10.2	0.20	< 0.005	—	16.7

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.53	2.23	2.76	0.05	< 0.005	—	4.53
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.17	9.08	11.2	0.22	0.01	—	18.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	23.6	99.6	123	2.43	0.06	—	201

4.4.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	24.7	103	128	2.54	0.06	—	210
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	48.3	208	256	4.97	0.12	—	416

Hotel	—	—	—	—	—	—	—	—	—	—	—	41.2	172	214	4.24	0.10	—	350
General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.9	49.6	61.5	1.22	0.03	—	101
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	3.22	13.5	16.7	0.33	0.01	—	27.3
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.1	54.8	67.9	1.35	0.03	—	111
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	24.7	103	128	2.54	0.06	—	210
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	48.3	208	256	4.97	0.12	—	416
Hotel	—	—	—	—	—	—	—	—	—	—	—	41.2	172	214	4.24	0.10	—	350

General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.9	49.6	61.5	1.22	0.03	—	101
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	3.22	13.5	16.7	0.33	0.01	—	27.3
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	13.1	54.8	67.9	1.35	0.03	—	111
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	142	602	744	14.6	0.35	—	1,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	4.09	17.1	21.2	0.42	0.01	—	34.8
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.99	34.5	42.5	0.82	0.02	—	68.9
Hotel	—	—	—	—	—	—	—	—	—	—	—	6.82	28.5	35.4	0.70	0.02	—	57.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.96	8.21	10.2	0.20	< 0.005	—	16.7

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.53	2.23	2.76	0.05	< 0.005	—	4.53
Supermarket	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.17	9.08	11.2	0.22	0.01	—	18.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	23.6	99.6	123	2.43	0.06	—	201

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	23.3	0.00	23.3	2.33	0.00	—	81.6

Apartments	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Hotel	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
General Office Building	—	—	—	—	—	—	—	—	—	—	—	110	0.00	110	11.0	0.00	—	386
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Health Club	—	—	—	—	—	—	—	—	—	—	—	87.3	0.00	87.3	8.72	0.00	—	305
Supermarket	—	—	—	—	—	—	—	—	—	—	—	62.9	0.00	62.9	6.29	0.00	—	220
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	94.7	0.00	94.7	9.47	0.00	—	331
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	23.3	0.00	23.3	2.33	0.00	—	81.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167

Hotel	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
General Office Building	—	—	—	—	—	—	—	—	—	—	—	110	0.00	110	11.0	0.00	—	386
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Health Club	—	—	—	—	—	—	—	—	—	—	—	87.3	0.00	87.3	8.72	0.00	—	305
Supermarket	—	—	—	—	—	—	—	—	—	—	—	62.9	0.00	62.9	6.29	0.00	—	220
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	94.7	0.00	94.7	9.47	0.00	—	331
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	3.86	0.00	3.86	0.39	0.00	—	13.5
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	18.4	0.00	18.4	1.84	0.00	—	64.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	18.3	0.00	18.3	1.82	0.00	—	63.9

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	13.7	0.00	13.7	1.37	0.00	—	47.8
Health Club	—	—	—	—	—	—	—	—	—	—	—	14.5	0.00	14.5	1.44	0.00	—	50.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.4
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	15.7	0.00	15.7	1.57	0.00	—	54.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10.3	0.00	—	359

4.5.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	23.3	0.00	23.3	2.33	0.00	—	81.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167

Hotel	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388
General Office Building	—	—	—	—	—	—	—	—	—	—	—	110	0.00	110	11.0	0.00	—	386
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Health Club	—	—	—	—	—	—	—	—	—	—	—	87.3	0.00	87.3	8.72	0.00	—	305
Supermarket	—	—	—	—	—	—	—	—	—	—	—	62.9	0.00	62.9	6.29	0.00	—	220
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	94.7	0.00	94.7	9.47	0.00	—	331
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	23.3	0.00	23.3	2.33	0.00	—	81.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Hotel	—	—	—	—	—	—	—	—	—	—	—	111	0.00	111	11.1	0.00	—	388

General Office Building	—	—	—	—	—	—	—	—	—	—	—	110	0.00	110	11.0	0.00	—	386
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Health Club	—	—	—	—	—	—	—	—	—	—	—	87.3	0.00	87.3	8.72	0.00	—	305
Supermarket	—	—	—	—	—	—	—	—	—	—	—	62.9	0.00	62.9	6.29	0.00	—	220
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	94.7	0.00	94.7	9.47	0.00	—	331
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	620	0.00	620	62.0	0.00	—	2,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	3.86	0.00	3.86	0.39	0.00	—	13.5
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	18.4	0.00	18.4	1.84	0.00	—	64.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	18.3	0.00	18.3	1.82	0.00	—	63.9

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	13.7	0.00	13.7	1.37	0.00	—	47.8
Health Club	—	—	—	—	—	—	—	—	—	—	—	14.5	0.00	14.5	1.44	0.00	—	50.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.4
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	15.7	0.00	15.7	1.57	0.00	—	54.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10.3	0.00	—	359

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399	399
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,289	4,289
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399	399
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,289	4,289
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.0	66.0
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.33	3.33
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	710	710

Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	780	780

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48	
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76	
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399	399	
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54	
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14	
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,289	4,289	
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46	

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399	399
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,289	4,289
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,710	4,710
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.0	66.0

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.33	3.33
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	710	710
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	780	780

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipm ent 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)

Equipm ent 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.8.2. Mitigated

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

Equipm ent 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)

Equipm ent 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipm ent 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)

Vegetati on	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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
Demolition	Demolition	1/1/2026	1/31/2026	5.00	22.0	—
Grading	Grading	2/1/2026	5/31/2026	5.00	85.0	—
Building Construction	Building Construction	6/1/2026	8/31/2028	5.00	589	—
Paving	Paving	12/1/2026	1/31/2027	5.00	44.0	—
Architectural Coating	Architectural Coating	4/1/2027	8/31/2028	5.00	371	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	6.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
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	2.00	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	6.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45

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	2.00	8.00	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
Demolition	—	—	—	—
Demolition	Worker	17.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	2.00	10.2	HHDT,MHDT
Demolition	Hauling	116	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	735	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	788	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	295	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	3.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	158	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	17.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	2.00	10.2	HHDT,MHDT
Demolition	Hauling	116	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	735	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	788	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	295	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	3.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	158	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	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	349,410	116,470	1,088,849	362,950	1,516

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	10,200	—
Grading	—	500,000	255	0.00	—
Paving	0.00	0.00	0.00	0.00	0.58

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

Water Demolished Area	2	36%	36%
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5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Apartments Mid Rise	—	0%
Hotel	0.00	0%
General Office Building	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Health Club	0.00	0%
Supermarket	0.00	0%
Government Office Building	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Other Asphalt Surfaces	0.58	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	449	0.03	< 0.005
2027	0.00	439	0.03	< 0.005
2028	0.00	430	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
Condo/Townhouse	371	250	212	120,765	4,793	3,236	2,745	1,561,499

Apartments Mid Rise	513	516	426	182,892	6,633	6,677	5,508	2,364,798
Hotel	3,004	3,034	2,233	1,057,924	36,478	36,843	27,118	12,845,350
General Office Building	2,385	486	154	655,133	28,956	5,903	1,870	7,954,649
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	5,857	7,201	5,262	2,176,842	48,235	87,434	63,892	20,466,223
Government Office Building	1,658	1,658	1,658	604,998	20,126	20,126	20,126	7,345,910
Enclosed Parking with Elevator	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

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	345	233	198	112,411	4,462	3,012	2,555	1,453,480
Apartments Mid Rise	478	481	397	170,240	6,174	6,215	5,127	2,201,209
Hotel	2,796	2,824	2,079	984,741	33,954	34,294	25,243	11,956,750
General Office Building	2,220	453	143	609,813	26,953	5,495	1,741	7,404,372
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Supermarket	5,452	6,703	4,898	2,026,255	44,899	81,386	59,473	19,050,436
Government Office Building	1,543	1,543	1,543	563,147	18,734	18,734	18,734	6,837,744
Enclosed Parking with Elevator	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
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5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	55
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	113
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	55
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	113
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	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)
349409.7	116,470	1,088,849	362,950	1,516

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Condo/Townhouse	403,103	430	0.0330	0.0040	1,146,787
Apartments Mid Rise	639,485	430	0.0330	0.0040	1,456,888
Hotel	4,106,854	430	0.0330	0.0040	7,617,880
General Office Building	3,837,498	430	0.0330	0.0040	6,069,064
High Turnover (Sit Down Restaurant)	452,104	430	0.0330	0.0040	1,468,507
Health Club	271,915	430	0.0330	0.0040	1,220,476
Supermarket	663,729	430	0.0330	0.0040	347,276
Government Office Building	3,296,760	430	0.0330	0.0040	5,213,878
Enclosed Parking with Elevator	3,562,231	430	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	430	0.0330	0.0040	0.00

5.11.2. Mitigated

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)
Condo/Townhouse	403,103	430	0.0330	0.0040	1,146,787
Apartments Mid Rise	639,485	430	0.0330	0.0040	1,456,888
Hotel	4,106,854	430	0.0330	0.0040	7,617,880
General Office Building	3,837,498	430	0.0330	0.0040	6,069,064
High Turnover (Sit Down Restaurant)	452,104	430	0.0330	0.0040	1,468,507
Health Club	271,915	430	0.0330	0.0040	1,220,476
Supermarket	663,729	430	0.0330	0.0040	347,276
Government Office Building	3,296,760	430	0.0330	0.0040	5,213,878
Enclosed Parking with Elevator	3,562,231	430	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	430	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)
Condo/Townhouse	12,903,700	0.00
Apartments Mid Rise	25,193,240	1,005,180
Hotel	21,506,166	0.00
General Office Building	6,191,169	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00
Health Club	1,680,612	0.00
Supermarket	0.00	0.00
Government Office Building	6,842,871	0.00

Enclosed Parking with Elevator	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	12,903,700	0.00
Apartments Mid Rise	25,193,240	1,005,180
Hotel	21,506,166	0.00
General Office Building	6,191,169	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00
Health Club	1,680,612	0.00
Supermarket	0.00	0.00
Government Office Building	6,842,871	0.00
Enclosed Parking with Elevator	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)
Condo/Townhouse	43.3	—
Apartments Mid Rise	88.8	—
Hotel	206	—
General Office Building	205	—
High Turnover (Sit Down Restaurant)	153	—
Health Club	162	—
Supermarket	117	—
Government Office Building	176	—

Enclosed Parking with Elevator	0.00	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	43.3	—
Apartments Mid Rise	88.8	—
Hotel	206	—
General Office Building	205	—
High Turnover (Sit Down Restaurant)	153	—
Health Club	162	—
Supermarket	117	—
Government Office Building	176	—
Enclosed Parking with Elevator	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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.3	annual days of extreme heat
Extreme Precipitation	2.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	1.71	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.0
AQ-PM	91.0
AQ-DPM	96.0
Drinking Water	77.4
Lead Risk Housing	81.5
Pesticides	0.00
Toxic Releases	56.7
Traffic	68.2
Effect Indicators	—
CleanUp Sites	88.4
Groundwater	85.1
Haz Waste Facilities/Generators	84.9
Impaired Water Bodies	0.00
Solid Waste	9.67
Sensitive Population	—
Asthma	91.3
Cardio-vascular	96.4
Low Birth Weights	87.6
Socioeconomic Factor Indicators	—
Education	63.6
Housing	78.7
Linguistic	59.8
Poverty	78.0
Unemployment	73.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	19.49185166
Employed	2.130116771
Median HI	5.556268446
Education	—
Bachelor's or higher	24.75298345
High school enrollment	3.772616451
Preschool enrollment	1.873476197
Transportation	—
Auto Access	5.158475555
Active commuting	87.77107661
Social	—
2-parent households	12.6780444
Voting	1.976132427
Neighborhood	—
Alcohol availability	14.92364943
Park access	81.35506224
Retail density	97.92121134
Supermarket access	80.46965225
Tree canopy	28.26895932
Housing	—
Homeownership	6.236365969
Housing habitability	31.64378288
Low-inc homeowner severe housing cost burden	85.70511998
Low-inc renter severe housing cost burden	42.52534326
Uncrowded housing	31.19466188
Health Outcomes	—

Insured adults	13.22982163
Arthritis	30.2
Asthma ER Admissions	5.5
High Blood Pressure	19.3
Cancer (excluding skin)	57.8
Asthma	12.1
Coronary Heart Disease	23.5
Chronic Obstructive Pulmonary Disease	8.5
Diagnosed Diabetes	35.6
Life Expectancy at Birth	4.5
Cognitively Disabled	15.2
Physically Disabled	10.8
Heart Attack ER Admissions	10.1
Mental Health Not Good	13.8
Chronic Kidney Disease	35.4
Obesity	8.0
Pedestrian Injuries	90.5
Physical Health Not Good	18.1
Stroke	17.3
Health Risk Behaviors	—
Binge Drinking	33.9
Current Smoker	4.4
No Leisure Time for Physical Activity	19.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	78.7
Elderly	45.2

English Speaking	52.7
Foreign-born	22.8
Outdoor Workers	43.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	47.5
Traffic Density	69.5
Traffic Access	71.3
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	17.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per Project Description. Population based on City of Riverside household size of 3.43. Total landscape area assumed 15% of site
Construction: Construction Phases	Per City
Construction: Off-Road Equipment	Per City
Operations: Vehicle Data	Weekday trip generation per TIA. Trip generation and trip type % for retail uses (restaurant, health club and supermarket) combined per TIA and modeled under Supermarket use. Weekend trip generation rates per ITE Trip Generation Manual (11th Edition). Weekday trip rate for convention center expansion used for weekend trip rate.
Operations: Hearths	No fireplaces proposed
Operations: Water and Waste Water	Per City Water Demand Estimates

WEBB-B

**ENERGY CONSUMPTION
CALCULATIONS**

Table 1 – Total Construction-Related Fuel Consumption

Riverside Alive Project

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	447,611	Gallons
Off-Road Construction Equipment ²	170,025	Gallons
Diesel Total	617,636	Gallons
Gasoline		
On-Road Construction Trips ¹	364,211	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	364,211	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2026 and fleet-average fuel consumption in gallons per mile from EMFAC2021 web based data for Riverside (South Coast). See Table 2 for calculation details.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (HP)-hour, based on SCAQMD CEQA Air Quality Handbook, Table A9-3E.
3. All emissions from off-road construction equipment were assumed to be diesel.

Table 2 – On-Road Construction Trip Estimates

Riverside Alive Project

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	525,920	18.5	9,729,520	27.3	Gasoline	364,211
Vendor ⁴	174,101	10.2	1,775,830	7.7	Diesel	239,996
Hauling ⁵	65,027	20	1,300,540	6.3	Diesel	207,615

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod (See Air Quality/GHG Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2021 web based data for 2026 in Riverside (South Coast).
2. Worker trips were assumed to be 100% gasoline powered vehicles.
3. Per CalEEMod, worker Trips were assumed to be 25% LDA, 50% LDT1, and 25% LDT2.
4. Vendor trips were assumed to be 50% MHDT and 50% HHDT, split evenly between the MHDT and HHDT construction categories.
5. Per CalEEMod, hauling trips were assumed to be 100% HHDT.

Table 3 – Annual Energy Consumption from Operation

Riverside Alive Project

Fuel Type	Energy Consumption	Units	Natural Gas	Units
Electricity				
Building ¹	17,233,679	kWh/year	24,540,756	kBTU/yr
Water ²	511,214	kWh/year		
Total Electricity	17,744,893	kWh/year		
Mobile³				
Gasoline	1,723,320	gallons/year		
Diesel	275,151	gallons/year		
Natural Gas	16,511	gallons/year		
Plug-in Hybrid (Combustion Portion)	16,512	gallons/year		
Plug-in Hybrid (Electric Portion)	180,912	kWh/year		
Electricity	874,216	kWh/year		

Notes:

1. Building electricity use from CalEEMod (See Air Quality Memo).
2. Calculated based on the Project's annual water consumption from CalEEMod defaults using CalEEMod SCAQMD energy intensity of 0.005306 kWhr per gallon for supply, distribution, and treatment of water and 0.006807 kWhr per gallon for supply, distribution, and treatment of water and wastewater treatment.
3. Mobile source fuel use based on annual vehicle miles traveled (VMT) from CalEEMod output per phase for operational year 2028 and fleet-average fuel consumption in gallons per mile from EMFAC2021 web based data in Riverside County (South Coast).