To: City of San Jacinto Planning Department

From: Maryam Javanmardi, Tina Yuan, Alex J. Garber, EPD Solutions, Inc.

Date: 8/18/2026

Re: Air Quality, Energy, and Greenhouse Gas Impact Analysis for the Bradley Gardens Skilled Nursing Facility Expansion Project EPD Project No. 26-017

Project Overview

This technical memorandum evaluates the proposed Bradley Garden Skilled Nursing Facility Expansion Project ("Project," or "proposed Project"). The Project site is within the southwestern portion of the City of San Jacinto in Riverside County, California. The Project site is located at 980 West (W.) 7th Street, at the southeast corner of the intersection of W. 7th Street and South (S.) Grand Avenue. Regional access to the Project site is provided by State Route (SR) 79 and SR 74. Local access to the site is provided by W. 7th Street and S. Grand Avenue. The Project site consists of one parcel encompassing approximately 2.98 acres. The site is identified as Assessor's Parcel Number (APN) 435-330-003. The Project site is developed and currently operates as the Bradley Gardens facility, which offers a variety of psychiatric-focused care to patients with varying health needs, including supervised Psychiatric Health Facility (PHF) care beds, Skilled Nursing Facility (SNF) and Short-Term Psychiatric (STP) care beds, and rehabilitation and therapy programs.

The Project proposes the expansion of the existing Bradley Gardens Nursing Facility on the 2.98-acre site. The Project includes demolition of the existing 1,074-square-foot (SF) maintenance and storage building for the construction of an 18,000 SF building addition to the existing 44-bed SNF building that would provide 43 additional SNF and STP beds, resulting in a total capacity of 87 beds. The Project also proposes the conversion of the existing 2,596 SF vacant office building into a 16-bed PHF. The proposed Project would result in a floor area ratio (FAR) of 0.27. Additional improvements would include landscaping, utility connections, implementation of stormwater facilities, lighting, and pavement of parking areas and driveways. With the completion of the proposed Project, there would be a total of 103 beds (SNF, STP, and PHF beds) on the Project site. The Project site has an existing General Plan land use designation of Industrial (I) and is zoned as Industrial Light (IL). The proposed Project site plan is shown in Figure 1, *Conceptual Site Plan*. It should be noted that the Project site plan shows 17,372 SF for the 43-bed addition; this analysis utilized 18,000 SF for this 43-bed addition, presenting a conservative analysis.

To support the California Environmental Quality Act (CEQA) documentation for the Project, this report analyzes the proposed Project's construction and net operational impacts to air quality (emission of criteria pollutants), energy usage, and GHG emissions using the California Emissions Estimator Model (CalEEMod Version 2022.1) and Emission Factor model (EMFAC Version 2021). The Project site is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Therefore, significance thresholds from the SCAQMD are used in this analysis.

Table 1, *Construction Schedule*, shows the construction schedule modeled. Construction would last approximately 12 months.

Table 1: Construction Schedule

Activity	Start Date	End Date	Total Working Days
Demolition	12/1/2026	12/9/2026	7
Site Preparation	12/10/2026	12/16/2026	5
Grading	12/17/2026	12/23/2026	5
Building Construction	12/24/2026	12/8/2027	250
Paving	12/24/2026	12/30/2026	5
Architectural Coating	11/24/2027	11/30/2027	5

Source: CalEEMod output sheets are provided in Attachment A.

Modeling Assumptions and Adjustments

The following non-default assumptions and adjustments were used in the CalEEMod emission model for this analysis:

- **Land Use:** The lot acreage was adjusted to match the site plan provided by the applicant.
- **Construction Phases:** The following phases were adjusted to adhere to the construction start date and occupancy year as provided by the client:
    - Demolition: reduced from 20 days to 7 days.
    - Site Preparation: increased from 3 days to 5 days.
    - Grading: reduced from 6 days to 5 days.
    - Building Construction: increased from 220 days to 250 days.
    - Paving: reduced from 10 days to 5 days.

  Additionally, the paving phase was revised to begin concurrently with building construction. Architectural coating was set to begin two weeks before the completion of building construction. Reduced phase durations and overlapping phases during construction would result in a conservative analysis.
- **Construction Equipment:** It was assumed that all construction equipment would be used 8 hours a day per workday. Tractor/loaders/backhoes were replaced with crawler tractors in the site preparation and grading construction phases.
- **Demolition:** Based on client-provided information, the demolition of the existing building and hardscape is anticipated to generate approximately 5 tons of debris.
- **Construction Earthmoving Activity:** Based on client-provided grading information, the Project is anticipated to achieve a balanced site condition; however, for conservative analysis purposes, approximately 1,000 cubic yards of export are assumed to account for potential on-site spoils during grading activities.
- **Operations:** Hearths, wood stoves, and wood fireplaces were removed in accordance with SCAQMD Rule 445, which prohibits the installation of wood-burning devices in an effort to reduce particulate

matter and production of volatile organic compounds (VOCs).[1] Gas and propane fireplaces were also removed as neither are proposed for the Project.

- **Operational Trip Rates:** Weekday, Saturday, and Sunday trip rates were adjusted based on the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 12th Edition*, to match the auto trip rates for Nursing Homes (Land Use Code 620).

EMFAC Off-Model Adjustment Factors

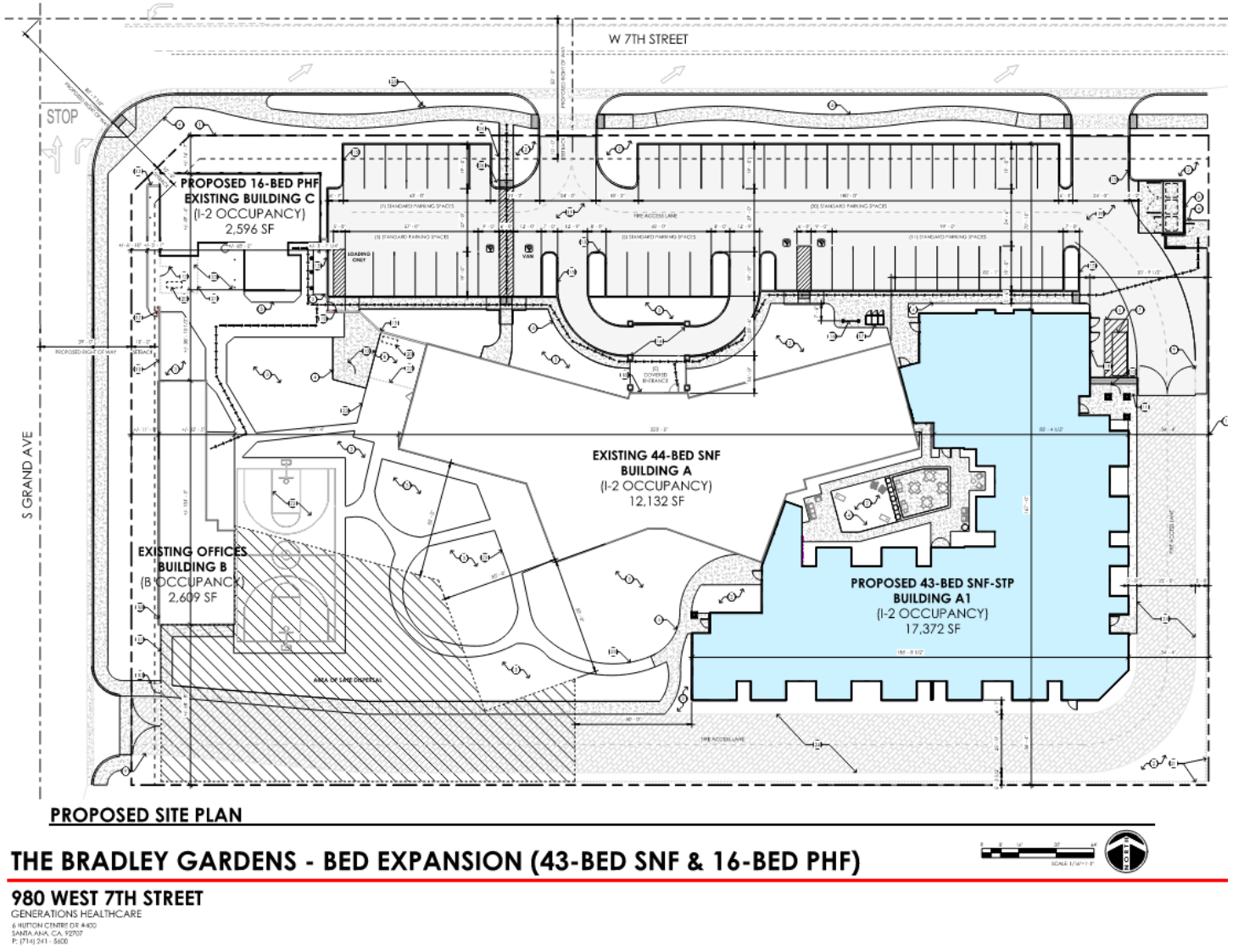
EMFAC2021 currently accounts for emissions reductions attributed to compliance with several regulations: the Advanced Clean Trucks Regulation, Zero-Emission Airport Shuttle Regulation, Heavy-Duty Warranty Amendments (Phase 1), and the Heavy-Duty Omnibus Regulation. On June 12, 2025, three congressional resolutions were signed into law to disapprove previously approved preemption waivers which allowed the enforcement of these regulations. Therefore, the California Air Resources Board (CARB) released the EMFAC2021 Off-Model Adjustment Factors (Adjustment Factors), which negates emissions reductions attributed to these regulations. On November 21, 2025, the EPA approved use of the Adjustment Factors.[2] These factors are provided for each vehicle under EMFAC2021's vehicle categories, for every year from 2022 to 2050. In addition, factors are provided for different fuel types (diesel, gas, natural gas, electric, and plug-in hybrid electric).

CalEEMod v. 2022.1 uses emissions data from EMFAC2021. However, CalEEMod has not yet incorporated the Adjustment Factors due to the recency of its approval. To account for the potential increase in emissions, diesel adjustment factors from the construction years of 2026 through 2027 were applied to construction off-site emissions from hauling and vendor trips. Adjustment factors were not applied to the operational mobile emissions, as the EMFAC adjustment factors provided for passenger vehicles are 1.0. Calculations to obtain the adjusted emission rates are provided in Attachment B.

[1] SCAQMD. (2020). *Rule 445, Wood-Burning Devices*. Referenced at https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-445.pdf

[2] USEPA. (November 2025). *EPA Off-Model Adjustment Factors Approval Letter*. Referenced at https://ww2.arb.ca.gov/sites/default/files/2025-12/EPA%20Off-Model%20Adjustment%20Factors%20Approval%20Letter.pdf

Figure 1: Conceptual Site Plan



Summary of Air Quality, Energy, and GHG Impacts

Air Quality

The construction and operation of the proposed Project would not exceed SCAQMD thresholds for any of the criteria pollutants. Projects that do not exceed the regional thresholds are assumed to not have a significant impact on both a project level and cumulative level. Additionally, the proposed Project aligns with the SCAQMD'S 2022 Air Quality Management Plan (AQMP), reflecting adherence to regional air quality management goals and standards. Furthermore, odors produced by the construction and operation of the proposed Project would be minimal and comply with SCAQMD Rule 402. Therefore, impacts to air quality from the proposed Project would be less than significant. No mitigation would be required.

Energy

The proposed Project's energy consumption for construction activities would be conditioned to require compliance with existing fuel standards, machinery efficiency standards, and California Air Resources Board (CARB) requirements that limit idling of construction trucks and equipment. There are no unusual Project characteristics that would cause the use of construction equipment that would be less energy efficient compared with other similar construction sites in other parts of the state. Additionally, through compliance with existing standards, the operation of the Project would not result in an energy demand on a per-development basis that is greater than that of other development projects in Southern California. The proposed Project would be required to meet the California Code of Regulations (CCR) Title 24 energy efficiency standards and comply with all applicable City energy codes. Therefore, the Project would not inhibit the use of renewable energy. Additionally, the Project would not result in inefficient, wasteful, or unnecessary consumption of energy. Impacts related to energy would thus be less than significant. No mitigation would be required.

GHG Emissions

The proposed Project's construction and operational greenhouse gas (GHG) emissions would total 810 metric tons of carbon dioxide equivalent ($MTCO_2e$). When compared to emissions from the existing buildings, the Project would result in a net increase of 460 $MTCO_2e$ per year, which is below the SCAQMD Tier III significance threshold of 3,000 $MTCO_2e$ per year. The Project would comply with applicable regulatory requirements, including the California Building Standards Code (Title 24), and would be consistent with applicable measures of the Western Riverside Council of Governments' (WRCOG) 2021 Subregional Climate Action Plan. The Project would not conflict with the GHG reduction framework established in the 2022 Scoping Plan adopted by the California Air Resources Board and would be consistent with applicable GHG reduction policies of the City of San Jacinto, as implemented through the WRCOG Subregional Climate Action Plan. Therefore, the Project would have a less-than-significant impact on GHG emissions. No mitigation would be required.

Air Quality

Regional Emissions

The SCAQMD has adopted maximum daily emission thresholds (pounds/day) for the criteria pollutants during the construction and operation of a project.[3] While incremental regional air quality impacts of an individual project are generally very small and difficult to measure, the SCAQMD's regional maximum emission thresholds set standards to reduce the burden of the SCAQMD to attain and maintain ambient air quality standards. The CalEEMod Project emissions, along with regional construction and operational thresholds for each of the criteria pollutants, are listed in Table 2, *Regional Construction Emission Estimates*, and Table 3, *Regional Operation Emission Estimates*, respectively. These emission thresholds include the Project emissions generated both from on-site sources (such as off-road construction equipment and fugitive dust) and off-site sources (vehicle travel arriving at and leaving from the site). In addition, Project construction would be required to comply with several SCAQMD rules and regulations, which would further reduce potential construction-related air quality emissions. These rules include:

- Rule 402, Public Nuisance, which prohibits the discharge of air contaminants that cause injury, nuisance, or annoyance to the public or damage to property;
- Rule 403, Fugitive Dust, which aims to minimize fugitive particulate matter dust emissions during construction activities;
- Rule 1113, Architectural Coatings, which requires the use of low-VOC paints; and
- Rule 1403, Asbestos Demolition and Removal, which establishes work practice requirements to limit asbestos emissions from building demolition or renovation, including asbestos surveying, notification, removal and handling procedures, and disposal requirements.

The CalEEMod output sheets for the proposed Project can be found in Attachment A, *CalEEMod Output Sheets.* In addition, detailed tables showing emissions for each construction phase are provided in Attachment B, *Detailed Calculation Sheets*. As noted in Table 2, maximum daily construction emissions would not exceed the SCAQMD regional construction thresholds and thus would result in a less-than-significant regional operational air quality impact.

[3] SCAQMD. (March 2023). *South Coast AQMD Air Quality Significance Thresholds*. Referenced at https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25.

Table 2: Regional Construction Emission Estimates*

Construction Year	Maximum Daily Regional Emissions (pounds/day) [1,2,3]					
	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
2026	2.3	15.6	23.5	<0.01	3.2	1.7
2027	52.7	11.3	17.5	<0.01	1.6	0.6
Maximum Daily Emissions (2026-2027)	**52.7**	**15.6**	**23.5**	**<0.01**	**3.2**	**1.7**
SCAQMD Significance Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SO2 = sulfur dioxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
1. Values may vary slightly due to rounding.
2. Winter and Summer emissions rates were compared across all pollutants; the table above presents the greater emission rate for each season and therefore presents a conservative analysis.
3. Emissions for ROG, NOx, PM_{10}, and $PM_{2.5}$ have accounted for the 2026 and 2027 Adjustment Factors.
Source: CalEEMod output sheets are provided in Attachment A. Detailed calculation sheets are provided in Attachment B.
* Regional construction emissions presented in this table are analyzed based on full buildout of the expanded facility, including a total of 103 beds. Because the analysis assumes construction emissions associated with the entire expanded facility rather than only the proposed expansion, the results represent a conservative estimate. Actual construction emissions associated with the new building, which would accommodate 43 additional SNF-STP beds, are anticipated to be much lesser than the emissions presented in this table.

The estimated maximum daily regional operational emissions associated with the existing facility, proposed expansion, and expanded facility are provided in Table 3, *Regional Operational Emission Estimates.* Emissions from operations of the existing facility on-site were subtracted from the expanded facility's operational emissions to obtain the net emissions associated with operation of the proposed Project. As shown, proposed Project operational emissions and expanded facility operational emissions would remain below all applicable SCAQMD regional thresholds. Therefore, the Project would result in less-than-significant regional operational air quality impacts, and no mitigation would be required.

Table 3: Regional Operation Emission Estimates

Operational Activity	Maximum Daily Regional Emissions (pounds/day) [1,2]					
	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
Mobile	1.2	1.3	12.3	<0.01	3.1	0.8
Area	1.4	0.1	6.0	<0.01	<0.01	<0.01
Energy	<0.01	0.4	0.2	<0.01	<0.01	<0.01
Total Expanded Facility Operational Emissions	**2.6**	**1.8**	**18.5**	**<0.01**	**3.1**	**0.8**
Existing Operational Emissions	1.1	0.8	7.9	<0.01	1.3	0.4
Net New Operational Emissions (proposed Project Emissions)	**1.5**	**1.0**	**10.6**	**<0.01**	**1.8**	**0.4**

SCAQMD Significance Thresholds	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SO_2 = sulfur dioxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
1. Values may vary slightly due to rounding.
2. Winter and Summer emissions rates were compared across all pollutants, the table above presents the greater emission rate for each season and therefore presents a conservative analysis.
Source: CalEEMod output sheets are provided in Attachment A. Detailed calculation sheets are provided in Attachment D.

Local Emissions

Localized significance thresholds (LSTs) were also adopted by the SCAQMD to evaluate projects which would not exceed the regional emission significance thresholds but may have the potential to exceed State and national air quality standards within a project's vicinity. These thresholds set the maximum rates of daily construction or operational emissions from a project site that would not exceed a national or State ambient air quality standard.[4] The differences between regional thresholds and LSTs are as follows:

1. Regional thresholds include all sources of project construction and operational emissions generated from on-site and off-site emission sources whereas the LSTs only consider the emissions generated from on-site emission sources.
2. LSTs only apply to carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM_{10} and $PM_{2.5}$), while regional thresholds include both reactive organic gases (ROG) and sulfur dioxide (SO_2).
3. Regional thresholds apply to emission sources located anywhere within the SCAQMD whereas the LSTs are location dependent and rely on the size of the project and emission location relative to the nearest sensitive receptor. A sensitive receptor is defined as an individual who is most susceptible to negative health effects when exposed to air pollutants and includes children, the elderly, and adults with chronic health issues. Locations for sensitive receptors include residences, schools, elderly care centers, and hospitals.

The SCAQMD provides screening tables (Appendix C of the SCAQMD *2008 Final Localized Significance Threshold Methodology*) for projects that disturb less than or equal to 5 acres in a day.[5] These tables were created to easily determine if the daily emissions of NOx, CO, PM_{10}, and $PM_{2.5}$ from a project could result in a significant impact to the local air quality. The thresholds are determined by:

- Source receptor area (SRA), which is the geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts (the Project is located within SRA 28, Hemet/San Jacinto Valley);
- Size of grading disturbance (construction)/size of the project (operation); and
- Distance to the nearest sensitive receptor.

Using the SCAQMD methodology for estimating acres of ground disturbance, the site preparation and grading phases would result in a maximum of 1.5 acres of disturbance per day. Construction emissions

[4] SCAQMD. (2008). *Final Localized Significance Threshold Methodology*. Referenced at http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf
[5] SCAQMD. (2008). *Final Localized Significance Threshold Methodology Appendix C*. Referenced at http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2.

were evaluated by interpolating between the 1-acre and 2-acre disturbance threshold tables to approximate LST values corresponding to a 1.5-acre daily disturbed area, consistent with SCAQMD guidance for conditions that fall between published threshold categories. Site disturbance calculations are provided in Attachment B. The sensitive receptors closest to the Project site boundary are the property lines of the single-family residences approximately 80 feet north of the Project site and 90 feet west of the Project site. Due to the setback to the property line, the nearest structure with sensitive receptors is the single-family residence located 90 feet (27 meters) north of the Project site across W. 7th Street; therefore, the 25-meter receptor distance thresholds were applied, consistent with the nearest available distance category in the SCAQMD LST lookup tables. There are also existing sensitive receptors located on-site associated with the operations of the existing facility. Although portions of the Project may be closer than 25 meters to the existing facility operations, the lowest applicable SCAQMD threshold category (25 meters) was conservatively applied. Construction activities within the proposed 16-bed PHF building would consist of interior renovations and would not involve continuous operation of heavy construction equipment. Additionally, windows in buildings occupied by sensitive receptors would be kept closed during construction to minimize potential exposure to construction-related emissions.

Table 4, *Localized Construction Emission Estimates,* shows the thresholds and estimated maximum daily construction emissions for the proposed Project. As shown in Table 4, the proposed Project would not exceed the SCAQMD LST screening thresholds and would therefore have a less-than-significant localized construction air quality impact.

Table 4: Localized Construction Emission Estimates*

Construction Activity	Maximum Daily Localized Emissions (pounds/day)			
	NOx	**CO**	**PM_{10}**	**$PM_{2.5}$**
2026				
Demolition	10.9	10.8	0.4	0.4
Site Preparation	13.4	13.2	2.7	1.5
Grading	13.4	13.2	2.7	1.5
Building Construction	9.9	11.5	0.3	0.3
Building Construction and Paving	14.9	18.7	0.6	0.5
Maximum On-Site Emissions (2026)	***14.9***	***18.7***	**2.7**	**1.5**
2027				
Building Construction	9.5	11.4	0.3	0.3
Building Construction and Architectural Coating	10.6	12.9	0.3	0.3
Architectural Coating	1.1	1.5	<0.01	<0.01
Maximum On-Site Emissions (2027)	***10.6***	***12.9***	***0.3***	***0.3***
Maximum On-Site Emissions	**14.9**	**18.7**	**2.7**	**1.5**
SCAQMD Screening Thresholds	198.0	925.0	5.5	3.5
Threshold Exceeded?	**No**	**No**	**No**	**No**

Notes: NOx = nitrogen oxides, CO = carbon monoxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
Source: CalEEMod output sheets are provided in Attachment A. Detailed calculation sheets are provided in Attachment B.
* Localized construction emissions presented in this table are analyzed based on the full buildout of the expanded facility, including a total of 103 beds. Because the analysis assumes construction emissions associated with the entire expanded facility rather than only the proposed expansion, the results represent a conservative estimate. Actual construction emissions associated with the new building, which would accommodate 43 additional SNF-STP beds, are anticipated to be much lesser than the emissions presented in this table.

According to the SCAQMD LST methodology, LSTs apply to a project's stationary and on-site mobile sources. Projects that involve mobile sources that spend long periods queuing and idling at a site, such as transfer facilities or warehousing and distribution buildings, have the potential to exceed the operational LSTs. The proposed Project would operate as a SNF and PHF, which does not typically involve diesel vehicles regularly idling or queuing for long periods. Therefore, due to the lack of significant stationary source emissions or idling diesel-powered vehicles, impacts related to operational LSTs are presumed to be less than significant.

Air Quality Management Plan Consistency

The SCAQMD's CEQA Handbook provides the following two criteria to determine whether a project would be consistent with the 2022 AQMP:

1. The Project would not generate population and employment growth that would be inconsistent with Southern California Association of Governments (SCAG)'s growth forecasts from the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); or
2. The Project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

Consistency Criterion No. 1 refers to the SCAG's growth forecasts, and associated assumptions included in the AQMP. The future air quality levels projected in the AQMP are based on SCAG's growth projections, which are based, in part, on the general plans of cities located within the SCAG region. Therefore, if the level of housing and employment growth related to the proposed Project is consistent with the applicable assumptions used in the development of the AQMP, the Project would not jeopardize attainment of the air quality levels identified in the AQMP. While SCAG has updated the RTP/SCS to the Connect SoCal 2024, which provides growth and forecasting estimates for 2024 through 2050, this update was adopted after the 2022 AQMP. Therefore, the analysis below uses assumptions from the 2020-2045 RTP/SCS for consistency with the most recent AQMP.

The Project site has an existing General Plan land use designation of Industrial (I) and is zoned Industrial Light (IL). The Industrial (I) General Plan designation supports industrial and employment-generating uses, including light industrial, manufacturing, warehouse, service commercial, and related support uses. The IL zoning district allows for general manufacturing uses and light industrial activities, including auto repair services, pest control services, pool maintenance services, and woodworking shops. Other uses may be permitted where determined to be compatible with the primary allowed uses.

The proposed Project includes demolition of the existing 1,074 SF maintenance and storage building and construction of a new 18,000 SF building addition to the existing skilled nursing facility (SNF), resulting in a total of 87 beds within the SNF building. In addition, the existing 2,596 SF vacant office building would

be converted into a 16-bed Psychiatric Health Facility (PHF), resulting in a total campus capacity of 103 beds.

The proposed Project represents the expansion of an existing health care facility. Given that it does not propose the development of housing, the Project would not directly generate a permanent residential population. The Project also does not include infrastructure improvements or extensions that would directly induce population growth.

The existing Bradley Gardens facility has a total of 150 employees, and the proposed Project would add 100 new employees, resulting in a total of 250 employees. The employees that would fill these roles are anticipated to come from within the City or the region.

According to SCAG's 2020-2045 RTP/SCS Demographics and Growth Forecast Technical Report[6], the City of Jacinto is projected to add approximately 6,200 jobs between 2016 and 2045. Based on these growth projections, the full buildout of the proposed Project would represent approximately 4 percent of projected employment growth within the City of San Jacinto. Thus, the employment growth that would occur from the proposed Project is within the growth projections used to prepare SCAG's 2020-2045 RTP/SCS.

The Project site is designated Industrial under the City's General Plan, which allows a maximum FAR of 0.5. The proposed Project would result in an FAR of approximately 0.27, which is within the FAR allowed by the existing General Plan land use designation of the site. The Project would not introduce new land uses beyond the institutional healthcare uses already occurring on-site.

Therefore, the proposed Project would be within the development intensity anticipated for the site under the General Plan and would remain consistent with the growth framework for the area. Accordingly, the Project would be consistent with the growth assumptions used in the development of the 2020-2045 RTP/SCS and would not jeopardize attainment of the air quality levels identified in the AQMP. With the required City approvals, the Project would be consistent with the applicable General Plan and zoning designations and thus satisfies Consistency Criterion No. 1.

Consistency Criterion No. 2 refers to the California Ambient Air Quality Standards. An impact would occur if the long-term emissions associated with the proposed Project exceed the SCAQMD's regional significance thresholds for construction and operational emissions. As presented in Tables 3 and 4 above, the proposed Project would not result in emitting emissions that exceed SCAQMD established thresholds. Therefore, the proposed Project would be consistent with Criterion No. 2. Since the Project would be consistent with both Criterion No. 1 and 2, impacts related to consistency with the AQMP would be less than significant.

Odors

Odors would be produced during the construction of the proposed Project due to the operation of heavy-duty off-road equipment. The primary odor emitted would be diesel particulate matter from the vendor

[6] Southern California Association of Governments (SCAG). 2020. *Demographics and Growth Forecast Technical Repor*t. Retrieved from 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy: https://scag.ca.gov/sites/default/files/2024-05/0903fconnectsocal_demographics-and-growth-forecast.pdf

trucks and heavy-duty off-road equipment. This odor may be noticeable by nearby residents; however, these odors would be expected and not necessarily objectionable. These odors would also dissipate quickly and would be temporary. Therefore, due to the nature of the odor produced during construction as temporary and non-objectionable to a substantial number of people, the odor impact from the construction of the proposed Project would be less than significant.

For operational odor emissions, the SCAQMD's *CEQA Air Quality Handbook* describes odor complaints associated with the following land uses:

- Agricultural uses
- Chemical plants
- Composting activities
- Dairies
- Fiberglass molding
- Food processing plants
- Landfills
- Refineries
- Wastewater treatment plants

The Project does not propose any of the above land uses and is required to comply with SCAQMD Rule 402, *Nuisance*, which states:

> *A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.*

Thus, impacts associated with odor produced by the operation of the proposed Project would be less than significant.

Conclusion

The proposed Project's maximum daily regional and localized construction and operational emissions would not exceed the SCAQMD's regional thresholds of significance, as detailed in Tables 2 through 4. All construction activities would comply with applicable SCAQMD rules and regulations, ensuring minimal and temporary odor exposure during construction. Operational impacts are also anticipated to be minimal and consistent with surrounding land uses. In addition, the proposed Project is consistent with the SCAQMD'S 2022 AQMP, reflecting adherence to regional air quality management goals and standards. During construction, any odors produced will be temporary and not significantly objectionable. Additionally, the proposed Project involves land uses that do not typically generate significant odor complaints and would comply with SCAQMD Rule 402, which addresses potential odor impacts. Overall, the proposed Project's impacts related to air quality would be less than significant. No mitigation would be required.

Energy

The State CEQA Guidelines do not have quantitative thresholds for energy consumption. Rather, the criteria in Appendix G: VI Energy ask (a) "[Would the proposed Project] Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?" and (b) "[Would the project] Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?"[7] Therefore, for the purpose of this analysis, a significant impact would occur if:

(a) The project design and/or location encourages wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, as well as the use of fuel by vehicles anticipated to travel to and from the project; or
(b) The project design impedes the growth of future renewable energy developments.

Southern California Edison and the Southern California Gas Company would provide electricity and natural gas, respectively, for construction and operation of the proposed Project. The following assumptions were used to calculate the energy (electricity, natural gas, and petroleum) consumption of the proposed Project:

- Construction equipment fuel consumption was derived from the CARB OffRoad2021 emission model.
- Fuel consumption from vehicle travel was derived from the CARB EMFAC2021 emission model.
- Electrical and natural gas usage was derived from CalEEMod (Version 2022.1).

Construction

Electricity and Natural Gas Usage

Due to the Project size and the fact that construction is temporary, the electricity used during construction of the proposed Project would be substantially less than that required for Project operation and would have a negligible contribution to the Project's overall energy consumption. The electric power used would be for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers. Natural gas is not anticipated to be needed for construction activities. Any natural gas consumption during construction would be minor and negligible in comparison with countywide consumption.

Petroleum Fuel Usage

The equipment associated with construction activities (off-road/heavy duty vehicles) would rely on diesel fuel as would vendor and haul trucks involved in delivering building materials and removing soil material from the Project site. Construction workers would travel to and from the Project site throughout the duration of construction, and for a conservative analysis, it is assumed that construction workers would travel in gasoline-powered passenger vehicles. The trips included worker vehicles, vendor vehicles, and haul vehicles. Table 5, *Total Construction Fuel Usage*, shows the overall fuel consumption for Project

[7] California Energy Commission. (2023). *CEQA Statutes and Guidelines Attachment 10 Appendix G: Environmental Checklist Form*. Referenced at: https://www.energy.ca.gov/sites/default/files/2024-01/11_Attachment_10_-_Appendix_G_from_CEQA_Handbook_ada.docx

construction, obtained from the CARB OffRoad 2021 emission model and the CARB EMFAC2021 model. Detailed tables of fuel consumption by construction equipment and on-road vehicles can be found in Attachment B.

Table 5: Total Construction Fuel Usage*

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	7,730	25,025
Off-Road Construction Equipment	25,320	-
Total	**33,050**	**25,025**
Riverside Countywide Consumption	50,504,775	430,881,899
Percentage Increase (%)	**0.07**	**<0.01**

Source: CalEEMod Output Sheets (see Attachment A) and Detailed Calculation Sheets (see Attachment B).
[1]OFFROAD2021 (v1.0.5) emissions inventory model output for Riverside County, covering calendar year 2027.
* Total construction fuel usage presented in this table is analyzed based on the full buildout of the expanded facility, including a total of 103 beds. Because the analysis assumes construction emissions associated with the entire expanded facility rather than only the proposed expansion, the results represent a conservative estimate. Actual construction emissions associated with the new building, which would accommodate 43 additional SNF-STP beds, are anticipated to be much lesser than the emissions presented in this table. Assumed all construction equipment would consume diesel fuel as a conservative analysis.

As shown in Table 5, construction of the proposed Project would require a total of 33,050 gallons of diesel fuel and 25,025 gallons of gasoline fuel from construction vehicles. This would result in a 0.07 percent increase in countywide construction diesel fuel consumption and a <0.01 percent increase in countywide on-road gasoline consumption. Thus, increased energy consumption from the construction of the proposed Project would be nominal. Additionally, it should be noted that this total fuel consumption is a conservative analysis and would likely overstate the amount of fuel usage, as specific construction equipment is not expected to operate during the entire duration of the construction activity.

Operation

The operation of the proposed Project would consume electricity, natural gas, and petroleum (gasoline). Electricity and natural gas consumption can be found in the CalEEMod Output Sheets attached (Attachment A). The gasoline consumption rates utilize the same assumptions that were used for the worker vehicles. The Project's estimated net energy consumption is shown in Table 6, *Project Net Annual Operational Energy Consumption*, below.

The most recent data available for electricity from the California Energy Commission is from 2023. In 2023, electricity consumption in Riverside County was estimated at 16,286,000,000 kilowatt-hours.[8] The most recent data available for natural gas from the California Energy Commission is from 2024, when natural gas consumption in Riverside County was estimated at 42,670,000,000 British thermal units (Btu).[9] As

[8] California Energy Commission. (2023). *Electricity Consumption by County.* Referenced at: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0
[9] California Energy Commission. (2024). *Natural Gas Consumption by County.* Referenced at: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-1

previously shown in Table 5, gasoline consumption in Riverside County in 2027 is estimated at 430,881,899 gallons (see Attachment B). The proposed Project is expected to require electricity, natural gas, gasoline, and diesel. However, the proposed Project's energy consumption would be consistent with that of similar-sized projects and would not constitute an inefficient use of energy. As shown in Table 6, operation of the proposed Project would result in a countywide net increase of less than 0.01 percent in electricity consumption, less than 0.01 percent in natural gas consumption, and less than 0.01 percent in gasoline consumption. Accordingly, the Project's operational electricity, natural gas, and gasoline consumption would be minimal at the countywide scale. The Project would not result in wasteful, inefficient, or unnecessary consumption of energy. The proposed Project would result in less-than-significant operational energy impacts. No mitigation would be required.

Table 6: Project Net Annual Operational Energy Consumption

Operational Source	Energy Usage	Countywide Energy Consumption	Percentage Increase in Countywide Consumption from Project
Electricity (Kilowatt-Hour)			
Proposed Project	646,337	NA	
Existing Conditions	313,592		
Net Electricity Consumption from Project	332,746	16,286,000,000	<0.01%
Natural Gas (Thousands British Thermal Units)			
Proposed Project	1,399,933	NA	
Existing Conditions	639,257		
Net Natural Gas Consumption from Project	760,676	42,670,000,000	<0.01%
Petroleum (Gasoline Fuel) Consumption (Gallons)			
Proposed Project	52,117	NA	
Existing Conditions	22,263		
Net Petroleum (Gasoline) Consumption from Project	29,853	430,881,899	<0.01%

NA=Not Applicable, as this analysis compares the net increase of the Project in countywide consumption.
Source: CalEEMod Output Sheets (see Attachment A) and Detailed Calculation Sheets (see Attachment B).

Future Renewable Energy Developments

The proposed Project would be required to meet the CCR Title 24 energy efficiency standards in effect during permitting of the proposed Project and comply with all applicable City energy codes. The City's administration of the CCR Title 24 requirements includes review of design components and energy conservation measures that occur during the permitting process, which ensures that all requirements are met. In addition, Project design and operation would comply with State Building Energy Efficiency Standards, appliance efficiency regulations, and green building standards. As such, the Project would not inhibit the use of renewable energy.

Conclusion

The proposed Project's energy consumption for construction activities would be conditioned to require compliance with existing fuel standards, machinery efficiency standards, and California Air Resources Board (CARB) requirements that limit idling of construction trucks and equipment. There are no unusual Project characteristics that would cause the use of construction equipment that would be less energy efficient compared with other similar construction sites in other parts of the state. Additionally, through compliance with existing standards, the operation of the Project would not result in an energy demand on a per-development basis that is greater than other development projects in Southern California. Furthermore, the proposed Project would be required to meet the California Code of Regulations (CCR) Title 24 energy efficiency standards and comply with all applicable City energy codes. The Project would comply with applicable Title 24 Part 6 energy code requirements for healthcare facilities. Therefore, the Project would not inhibit the use of renewable energy. Additionally, the Project would not result in inefficient, wasteful, or unnecessary consumption of energy. Thus, impacts related to energy would be less than significant. No mitigation would be required.

Greenhouse Gas Emissions

Regulatory Background and Thresholds

California State Executive Order S-3-05, issued by Governor Arnold Schwarzenegger in June 2005, established comprehensive GHG reduction targets for the state.[10] It mandated reducing GHG emissions to 2000 levels by 2010, to 1990 levels by 2020, and to 80 percent below 1990 levels by 2050. This Executive Order laid the foundation for subsequent climate change mitigation efforts in California, including the development of various policies and programs aimed at reducing emissions across sectors such as transportation, energy, and industry. The objective of the Executive Order is to contribute to capping worldwide CO_2 concentrations at 450 parts per million (ppm), stabilizing global climate change.

The SCAQMD convened a GHG Emissions CEQA Significance Threshold Working Group to help lead agencies determine significance thresholds for GHG emissions where the SCAQMD is not the lead agency. The last working group was held in September 2010 (Meeting No. 15) and proposed a tiered approach (Tier I to Tier V), equivalent to the existing consistency determination requirements in CEQA Guidelines Sections 15064(h)(3) or 15125(d).[11] The applicable screening threshold tier for the City of San Jacinto is described in further detail below.

Tier III – Numerical Screening Thresholds

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier III screening level. Tier III consists of screening values which the lead agency can choose from, but it must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project impact would be less than significant:

- Option 1, all land use types: 3,000 $MTCO_2e$ per year
- Option 2, based on land use type:
    - Residential: 3,500 $MTCO_2e$ per year
    - Commercial: 1,400 $MTCO_2e$ per year
    - Mixed-use: 3,000 $MTCO_2e$ per year

Based on the foregoing guidance, the City has elected to rely on compliance with the SCAQMD threshold in the determination of significance of project-related GHG emissions. Specifically, the City has selected the 3,000 $MTCO_2e$ per year threshold recommended by SCAQMD staff against which to compare Project-related GHG emissions.

The City understands that the 3,000 $MTCO_2e$ per year threshold was proposed by the SCAQMD a decade ago and was adopted as an interim policy; however, no permanent, superseding policy or threshold has since been adopted. The 3,000 $MTCO_2e$ per year threshold was developed and recommended by the

[10] Executive Department State of California. Executive Order S-3-05. Referenced at: https://www.library.ca.gov/wp-content/uploads/GovernmentPublications/executive-order-proclamation/5129-5130.pdf

[11] SCAQMD. (2010). *Minutes of the GHG CEQA Significance Threshold Stakeholder Working Group #15*. Referenced at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf.

SCAQMD, an expert agency, based on substantial evidence as provided in the *Draft Guidance Document – Interim CEQA Greenhouse Gas Significance Threshold* document and subsequent Working Group meetings (latest of which occurred in 2010).[12] The SCAQMD has not withdrawn its support of the interim threshold and all documentation supporting the interim threshold remains on the SCAQMD website on a page that provides guidance to CEQA practitioners for air quality analysis (and where all SCAQMD significance thresholds for regional and local criteria pollutants and toxic air contaminants also are listed). Further, as stated by SCAQMD, this threshold "uses the Executive Order S-3-05 goal (80 percent below 1990 levels by 2050) as the basis for deriving the screening level," and thus remains valid for use in year 2026 and for purposes of this analysis. Lastly, this threshold has been used for hundreds of GHG analyses performed for projects located within the SCAQMD jurisdiction.

Project GHG Emissions

The Project's construction GHG emissions are shown in Table 7, *Project Construction GHG Emissions*, and the overall construction and operational emissions are shown in Table 8, *Total Project GHG Emissions*, below. Similar to the previous energy analysis, this GHG analysis likely overstates the Project's GHG emissions, since Title 24 measures have not been accounted for in the model. Therefore, this report provides a conservative analysis of potential GHG impacts.

These emissions were estimated using CalEEMod. Construction emissions were amortized over 30 years and combined with operational greenhouse gas (GHG) emissions for evaluation. As shown in Table 8, the proposed Project's total construction and operational GHG emissions would be 810 metric tons of carbon dioxide equivalent ($MTCO_2e$). When compared to emissions from the existing buildings, the Project would result in a net increase of approximately 460 $MTCO_2e$ per year, which is below the SCAQMD Tier III significance threshold of 3,000 $MTCO_2e$ per year. Therefore, the Project would result in a less-than-significant GHG impact.

Table 7: Project Construction GHG Emissions*

Construction Year	Annual GHG Emissions ($MTCO_2e$)
2026	33
2027	386
Total Emissions	**419**
Total Emissions Amortized Over 30 Years	14

Source: CalEEMod Output Sheets (see Attachment A) and Detailed Calculation Sheets (see Attachment B).
* Construction GHG emissions presented in this table are analyzed based on full buildout of the expanded facility, including a total of 103 beds. Because the analysis assumes construction emissions associated with the entire expanded facility rather than only the proposed expansion, the results represent a conservative estimate. Actual construction emissions associated with the new building, which would accommodate 43 additional SNF-STP beds, are anticipated to be much lesser than the emissions presented in this table.

[12] SCAQMD. (2008). *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans*. Referenced at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf.

Table 8: Total Project GHG Emissions

Activity	Annual GHG Emissions ($MTCO_2e$)
Mobile	509
Area	2
Energy	177
Water	12
Waste	96
Refrigeration	0.1
Total Project Operation Emissions	**796**
Amortized Project Construction Emissions	14
Total Project Emissions	**810**
Existing Emissions	349
Net New Emissions	**460**
Tier III Significance Threshold	3,000
Threshold Exceeded?	**No**

Source: CalEEMod Output Sheets (see Attachment A) and Detailed Calculation Sheets (see Attachment B).
* Total Project GHG emissions presented in this table are analyzed based on full buildout of the expanded facility, including a total of 103 beds. Because the analysis assumes construction emissions associated with the entire expanded facility rather than only the proposed expansion, the results represent a conservative estimate. Actual construction emissions associated with the new building, which would accommodate 43 additional SNF-STP beds, are anticipated to be much lesser than the emissions presented in this table.

Project Consistency with Plans, Policies, and Regulations

CARB's 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) sets California's GHG emission reduction target for 2045 at 85 percent below 1990 levels, which was codified by Senate Bill (SB) 32.[13] In addition to the CARB 2022 Scoping Plan, the City of San Jacinto is one of 12 Western Riverside Council of Governments (WRCOG) jurisdictions that participated in preparing the 2021 Subregional Climate Action Plan (WRCOG Subregional CAP).[14] The WRCOG Subregional CAP establishes a community-wide emissions reduction target of 15 percent below 2010 levels by 2020 and 49 percent below 2010 levels by 2035, consistent with guidance from CARB and the Governor's Office of Planning and Research. CARB and the California Attorney General have determined that this approach is consistent with the statewide AB 32 goal of reducing emissions to 1990 levels.

[13] California Air Resources Board. (2022). *California's 2022 Climate Change Scoping Plan Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory Sectors.* Referenced at: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

[14] Western Riverside Council of Governments. (2022). *Subregional Climate Action Plan.* Referenced at: https://wrcog.us/DocumentCenter/View/9987/Climate-Action-Plan-Toolkit

As shown below in Table 9, *2022 Scoping Plan Consistency Summary,* and Table 10, *WRCOG Subregional CAP Consistency Summary,* the Project would be consistent with applicable policies and measures in the 2022 Scoping Plan and the WRCOG Subregional CAP.

Table 9: 2022 Scoping Plan Consistency Summary

Action	Consistency
GHG Emissions Reductions Relative to the SB 32 Target	
40 percent Below 1990 levels by 2030.	**Consistent.** The proposed Project would comply with applicable Title 24, Part 6 building energy efficiency standards and other State and local requirements supporting statewide greenhouse gas reduction targets consistent with SB 32.
Smart Growth/Vehicle Miles Traveled VMT	
VMT per capita reduced 25 percent below 2019 levels by 2030, and 30 percent below 2019 levels by 2045.	**Consistent.** The Project site has an existing General Plan land use designation of Industrial (I) and is zoned Industrial Light (IL). The Industrial (I) designation supports industrial and employment-generating uses, including light industrial, manufacturing, warehouse, service commercial, and related support uses. The IL zoning district allows for general manufacturing and light industrial activities, including auto repair services, pest control services, pool maintenance services, and woodworking shops, as well as other compatible uses. The proposed Project includes demolition of an existing 1,074-square-foot storage building and construction of a new 18,000-square-foot building addition to the existing SNF, resulting in a total of 87 SNF beds. The Project also includes the conversion of an existing 2,596-square-foot vacant office building into a 16-bed PHF, resulting in a total campus capacity of 103 beds. The Project would have a floor area ratio (FAR) of approximately 0.27, which is consistent with the development intensity permitted by the existing General Plan land use designation. The Project represents the expansion of an existing institutional healthcare facility and does not introduce residential uses. It would not generate substantial population or employment growth beyond that anticipated under the General Plan or regional growth forecasts. As previously evaluated in the air quality analysis, the Project is consistent with the SCAG's 2020–2045RTP/SCS and would not conflict with regional VMT reduction strategies or statewide greenhouse gas reduction targets.
Light-Duty Vehicle (LDV) Zero-Emission Vehicles (ZEVs)	
100 percent of LDV sales are ZEV by 2035.	**Consistent.** The proposed Project would be designed and constructed in accordance with Title 24, Parts 6 and 11 requirements applicable to healthcare facilities,

Action	Consistency
	including provisions for electrical infrastructure to support future electric vehicle charging where required by code.
New Residential and Commercial Buildings	
All electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed statewide by 2030.	**Consistent.** The proposed Project would comply with Title 24, Part 6 energy efficiency requirements, including the installation of electrical wiring for built-in appliances. Although the Project would include natural gas use on-site, the Project would incorporate energy-efficient building design features and would not result in inefficient energy consumption.
Construction Equipment	
25 percent of energy demand electrified by 2030 and 75 percent electrified by 2045.	**Consistent.** The proposed Project would be required to use construction equipment that is registered by CARB and meet CARB's standards. CARB sets its standards to be in line to reduce energy demand by 25 percent in 2030 and 75 percent in 2045.
Transportation Electrification	
Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as permit streamlining, infrastructure siting, consumer education, or preferential parking policies).	**Consistent.** The proposed Project would be designed and constructed in accordance with the Title 24 Part 6 and Part 11 requirements, which include constructing homes to allow for electric vehicle charging. Therefore, the proposed Project would not interfere with the implementation of a ZEV ecosystem within the City.
VMT Reduction	
Adopt and implement Complete Streets policies and investments, consistent with general plan circulation element requirements.	**Consistent.** The Project includes redevelopment of an existing SNF campus and consists of building expansion, conversion of an existing vacant office building into a PHF, and associated site improvements, including drive aisles, driveways, landscaping, and pedestrian pathways. The Project would provide internal pedestrian circulation improvements through on-site pathways connecting building areas and access points. The Project would also include widening improvements along W. 7th Street and S. Grand Avenue. These improvements are limited to the Project site and do not include modifications to the surrounding public roadway network. The Project would not conflict with the implementation of Complete Streets policies or planned circulation improvements.
Increase public access to shared clean mobility options (such as planning for and investing in electric shuttles, bike share, car share, transit).	**Consistent.** The Project includes redevelopment of an existing SNF campus and consists of building expansion, conversion of an existing vacant office building into a PHF, and associated site improvements, including drive aisles, driveways, landscaping, and pedestrian pathways. The Project would not include shared mobility services such as shuttle programs, bike share, or car share systems. However, it would maintain internal pedestrian

Action	Consistency
	circulation through on-site pathways connecting building areas and access points. The nearest public transit stop is the S. State Street and W. 7th Street bus stop (Stop ID: 3214), located approximately 0.28 miles (approximately 1,500 feet) from the Project site. This stop provides access to regional bus transit services. Given the Project's infill location within an existing developed area, it would not conflict with implementation of transit services or regional shared mobility programs and would remain accessible to existing multimodal transportation options in the vicinity.
Amend zoning or development codes to enable mixed-use, walkable, and compact infill development (such as increasing allowable density of the neighborhood).	**Consistent.** The General Plan includes policies that encourage amendments to zoning and development codes to support mixed-use, walkable, and compact infill development. While the Project does not propose zoning amendments or mixed-use development, it represents infill redevelopment of an existing developed healthcare campus through the expansion of a SNF and conversion of an existing vacant office building to a PHF. The Project site has a zoning designation of Industrial Light (IL). The IL zoning designation allows for general manufacturing uses, auto repair services, pest control services, pool maintenance services, and woodworking shops. The Project does not include a change in land use designation or zoning. The proposed redevelopment would occur within an existing developed urbanized site and reflects efficient use of previously developed land consistent with infill development objectives and compact growth patterns. Therefore, the Project is consistent with the intent of this policy and does not conflict with the General Plan's objectives for compact and efficient land use patterns
Building Decarbonization	
Adopt all-electric new construction reach codes.	**Consistent.** The proposed Project would comply with Title 24 Parts 6 and 11, which include electric heat pumps installed during construction and electric hookups for all appliances.
Adopt policies and incentive programs to reduce electrical loads from equipment plugged into outlets (such as purchasing Energy Star equipment for municipal buildings, occupancy sensors, smart power strips, equipment controllers, etc.).	**Consistent.** The proposed Project would be constructed in accordance with Title 24 CALGreen requirements, which include the installation of Energy Star equipment and appliances in new buildings.
Facilitate deployment of renewable energy production and distribution and energy storage.	**Consistent.** The proposed Project would be constructed in accordance with the CALGreen Building Energy Efficiency Standards (Title 24 Part 6) and meet all other requirements related to energy efficiency standards.

Source: California Air Resources Board. (2022). *California's 2022 Climate Change Scoping Plan Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory Sectors.* Referenced at: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

Table 10: WRCOG Subregional CAP Consistency Summary

Measure	Consistency
Energy	
LE-1: Expand Local Renewable Energy Production. Increase solar PV installations on new and existing buildings.	**Consistent.** The Project would comply with Title 24 Part 6 building energy requirements and applicable California Energy Code provisions for healthcare facilities.
LE-4: Building & Appliance Electrification. Transition energy use away from fossil natural gas to clean electricity and renewable natural gas.	**Consistent.** The Project would comply with Title 24 Part 6 energy efficiency and electrification requirements for nonresidential healthcare facilities, including building systems and equipment electrification to the extent required by code.
LE-6: Shade Trees. Strategically plant trees to reduce the urban heat island effect.	**Consistent.** The Project would provide private open space for each proposed residence, as well as common open space and landscaped areas totaling approximately 4,015 square feet. These landscaped areas would allow for the incorporation of shade trees and vegetation throughout the Project site, including within open space areas and along pedestrian circulation routes, which supports reduction of localized heat island effects consistent with the intent of this policy.
LT-2: Pedestrian Infrastructure Improvements. Expand and improve pedestrian infrastructure, including sidewalks, crosswalks, and pedestrian signals.	**Consistent.** The Project includes internal site improvements consisting of pedestrian pathways, drive aisles, and driveways that provide circulation within the existing campus and connect building areas and site access points. These on-site pedestrian improvements would enhance internal pedestrian connectivity and access to existing public sidewalks in the surrounding area. The Project would also include widening and frontage improvements along W. 7th Street and S. Grand Avenue that would enhance pedestrian access adjacent to the site. The Project would not modify the public roadway network but would support improved pedestrian access consistent with LT-2.
LT-7: Increase Housing Density. Increase the density of planned housing units within the city.	**Consistent.** The Project does not propose residential development or any increase in housing density. It involves the expansion of an existing healthcare facility on a site designated Industrial (I) and zoned Industrial Light (IL). The Project does not affect housing capacity assumptions under the General Plan or regional growth forecasts.
LT-8: Increase Land Use Diversity. Provide for a variety of development types and uses.	**Consistent.** The Project site is designated Industrial (I) and zoned Industrial Light (IL), which allows for a range of industrial, service commercial, and compatible uses. The Project involves the expansion of an existing SNF and conversion of a vacant office building to a PHF within an existing developed campus. The Project does not introduce new land use categories or require a change in land use designation or zoning. It represents continued use and expansion of institutional

	healthcare services within an existing developed industrial setting.
LT-9: Transit-Oriented Development. Place new developments in close proximity to transit services.	**Consistent.** The Project is located approximately 0.28 miles (approximately 1,500 feet) from the nearest transit stop (S. State Street and W. 7th Street, Stop ID: 3214), providing access to regional transit services. The Project supports transit accessibility by locating redevelopment within an existing developed area near transit service.
LT-10: Local ZEV Programs. Provide charging stations and other support for zero emission vehicles (ZEVs).	**Consistent.** The proposed Project would be designed and constructed in accordance with Title 24, Part 6 and Part 11 requirements, which include EV-ready infrastructure to support electric vehicle charging on-site. Electric vehicle charging stations would be provided in surface parking areas and/or designated parking locations associated with the medical facility.
Solid Waste	
LS-1: Zero Waste Initiatives. Support the State's mandates and strive for zero waste.	**Consistent.** The proposed Project would be required to comply with applicable City of San Jacinto solid waste and recycling requirements implemented in accordance with statewide regulations, including AB 341 and SB 1383. These regulations require recycling of commercial solid waste and diversion of organic waste from landfills through recycling and organics collection programs, supporting statewide waste reduction and landfill methane reduction goals.

Source: Western Riverside Council of Governments. (2022). *Subregional Climate Action Plan.* Referenced at: https://www.wrcog.us/wp-content/uploads/2025/08/Climate-Action-Plan-Toolkit-1.pdf

In addition to the CARB 2022 Scoping Plan and the WRCOG Subregional CAP, the Project would comply with all applicable State and local regulatory requirements in effect at the time of construction and operation, including the California Building Standards Code (Title 24), which incorporates the California Energy Code and CALGreen requirements. The Project is also consistent with Connect SoCal 2024 (2024–2050 RTP/SCS), which establishes long-range regional transportation, land use, and emissions reduction strategies for the SCAG region, including transportation investments, programming, and regional growth considerations. These policies are implemented at the regional and local level through agency coordination and planning processes. The Project would not conflict with Connect SoCal 2024 and would remain consistent with regional growth assumptions, as it involves the expansion and conversion of an existing institutional healthcare facility, does not include residential development, and would not alter regional population or housing growth patterns.

Overall, the Project would not conflict with applicable plans, policies, or regulations adopted for the purpose of reducing GHG emissions.

Conclusion

As described above, the proposed Project's total construction and operational GHG emissions would be 810 $MTCO_2e$. When compared to emissions from the existing buildings, the Project would result in a net increase of approximately 460 $MTCO_2e$ per year, which is below the SCAQMD significance threshold of 3,000 $MTCO_2e$ per year. Furthermore, as shown in Tables 9 and 10, the Project is consistent with applicable measures of the WRCOG Subregional CAP and 2022 Scoping Plan. The Project would also

comply with applicable regulatory requirements, including Title 24 energy efficiency and CALGreen Code standards, and would not conflict with applicable plans, policies, or regulations adopted for the purpose of reducing greenhouse gas emissions. Therefore, the Project's GHG emissions impacts would be less than significant, and no mitigation would be required.

ATTACHMENT A: CALEEMOD OUTPUT SHEETS

26-017 Bradley Gardens San Jacinto-Proposed Project Detailed Report

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    8.5.2. Area Sources
      8.5.2.1. Hearths

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	26-017 Bradley Gardens San Jacinto-Proposed Project
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	22.4000
Location	980 W 7th St, San Jacinto, CA 92582, USA
County	Riverside-South Coast
City	San Jacinto
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5571
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

Data Field	Value
App Version	2022.1.1.45

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
Congregate Care (Assisted Living)	103.000	Dwelling Unit	0.75000	32,741.0	40,362.0	—	333.000	Congregate Facility Units
Other Non-Asphalt Surfaces	1.70000	Acre	1.70000	0.02000	0.00000	—	1,040.00	—
Parking Lot	52.0000	Space	0.47000	0.00000	0.00000	—	—	Parking Space
General Office Building	2.60900	1000sqft	0.06000	2,609.00	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Unmit.	1.41121	10.0908	16.4997	0.02530	0.31429	1.39241	0.54637	3,549.85

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Unmit.	52.6852	15.6315	23.5403	0.03580	0.71654	4.07632	1.80679	4,756.01
Average Daily (Max)	—	—	—	—	—	—	—	—
Unmit.	1.63587	6.82289	10.3866	0.01697	0.21069	0.92467	0.36405	2,332.83
Annual (Max)	—	—	—	—	—	—	—	—
Unmit.	0.29855	1.24518	1.89556	0.00310	0.03845	0.16875	0.06644	386.226
Exceeds (Daily Max)	—	—	—	—	—	—	—	—
Threshold	75.0000	100.0000	550.000	150.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—
Threshold	75.0000	100.0000	550.000	150.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	No	—

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—

Year	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
2027	1.41121	10.0908	16.4997	0.02530	0.31429	1.39241	0.54637	3,549.85
Daily - Winter (Max)	—	—	—	—	—	—	—	—
2026	2.28866	15.6315	23.5403	0.03580	0.71654	4.07632	1.80679	4,756.01
2027	52.6852	11.3076	17.5406	0.02760	0.33969	1.61386	0.61569	3,832.27
Average Daily	—	—	—	—	—	—	—	—
2026	0.10043	0.84111	0.95022	0.00164	0.03597	0.13699	0.06709	201.424
2027	1.63587	6.82289	10.3866	0.01697	0.21069	0.92467	0.36405	2,332.83
Annual	—	—	—	—	—	—	—	—
2026	0.01833	0.15350	0.17342	0.00030	0.00656	0.02500	0.01224	33.3480
2027	0.29855	1.24518	1.89556	0.00310	0.03845	0.16875	0.06644	386.226

2.2.2. Onsite 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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—
2027	1.10319	9.47687	11.4072	0.02273	0.30915	0.30915	0.28441	2,166.54
Daily - Winter (Max)	—	—	—	—	—	—	—	—
2026	1.93267	14.8651	18.6587	0.03323	0.68347	3.49274	1.62384	3,272.35
2027	52.3373	10.5851	12.9077	0.02503	0.33454	0.33454	0.30778	2,345.16
Average Daily	—	—	—	—	—	—	—	—
2026	0.09322	0.79983	0.84548	0.00144	0.03543	0.10688	0.05926	148.996

Year	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
2027	1.44017	6.35782	7.65514	0.01524	0.20725	0.20725	0.19067	1,452.46
Annual	—	—	—	—	—	—	—	—
2026	0.01701	0.14597	0.15430	0.00026	0.00647	0.01951	0.01082	24.6680
2027	0.26283	1.16030	1.39706	0.00278	0.03782	0.03782	0.03480	240.471

2.2.3. Offsite 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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—
2027	0.30802	0.61395	5.09251	0.00257	0.00514	1.08326	0.26195	1,383.32
Daily - Winter (Max)	—	—	—	—	—	—	—	—
2026	0.35600	1.97289	4.88152	0.01157	0.03307	1.24665	0.30025	1,871.69
2027	0.34786	0.72254	4.63285	0.00257	0.00514	1.27931	0.30791	1,487.11
Average Daily	—	—	—	—	—	—	—	—
2026	0.00721	0.04129	0.10475	0.00020	0.00054	0.03011	0.00782	52.4276
2027	0.19570	0.46507	2.73148	0.00172	0.00344	0.71742	0.17338	880.370
Annual	—	—	—	—	—	—	—	—
2026	0.00132	0.00753	0.01912	0.00004	0.00010	0.00550	0.00143	8.67999
2027	0.03571	0.08488	0.49849	0.00031	0.00063	0.13093	0.03164	145.755

2.3. 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.	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Unmit.	2.61529	1.66712	18.3923	0.03592	0.05437	3.09365	0.82357	5,205.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Unmit.	2.01574	1.70137	10.3410	0.03361	0.05145	3.09072	0.82137	4,973.18
Average Daily (Max)	—	—	—	—	—	—	—	—
Unmit.	2.29313	1.67636	14.1213	0.03203	0.05197	2.85322	0.76123	4,805.19
Annual (Max)	—	—	—	—	—	—	—	—
Unmit.	0.41850	0.30594	2.57714	0.00585	0.00948	0.52071	0.13893	795.554
Exceeds (Daily Max)	—	—	—	—	—	—	—	—
Threshold	55.0000	55.0000	550.000	150.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—
Threshold	55.0000	55.0000	550.000	150.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	No	—
Exceeds (Annual)	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	3,000.00
Unmit.	—	—	—	—	—	—	—	No

2.4. 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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Mobile	1.23277	1.25620	12.2661	0.03341	0.02286	3.06214	0.79278	3,472.03
Area	1.36184	0.05629	5.96728	0.00026	0.00294	0.00294	0.00221	16.1470
Energy	0.02068	0.35462	0.15892	0.00226	0.02858	0.02858	0.02858	1,066.51
Water	—	—	—	—	—	—	—	72.4253
Waste	—	—	—	—	—	—	—	577.920
Refrig.	—	—	—	—	—	—	—	0.42211
Total	2.61529	1.66712	18.3923	0.03592	0.05437	3.09365	0.82357	5,205.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Mobile	1.16116	1.34674	10.1821	0.03135	0.02287	3.06215	0.79279	3,255.90
Area	0.83390	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Energy	0.02068	0.35462	0.15892	0.00226	0.02858	0.02858	0.02858	1,066.51
Water	—	—	—	—	—	—	—	72.4253
Waste	—	—	—	—	—	—	—	577.920
Refrig.	—	—	—	—	—	—	—	0.42211
Total	2.01574	1.70137	10.3410	0.03361	0.05145	3.09072	0.82137	4,973.18
Average Daily	—	—	—	—	—	—	—	—
Mobile	1.07694	1.28318	9.87520	0.02960	0.02138	2.82263	0.73114	3,076.85
Area	1.19550	0.03856	4.08718	0.00018	0.00201	0.00201	0.00152	11.0596
Energy	0.02068	0.35462	0.15892	0.00226	0.02858	0.02858	0.02858	1,066.51

Sector	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Water	—	—	—	—	—	—	—	72.4253
Waste	—	—	—	—	—	—	—	577.920
Refrig.	—	—	—	—	—	—	—	0.42211
Total	2.29313	1.67636	14.1213	0.03203	0.05197	2.85322	0.76123	4,805.19
Annual	—	—	—	—	—	—	—	—
Mobile	0.19654	0.23418	1.80222	0.00540	0.00390	0.51513	0.13343	509.408
Area	0.21818	0.00704	0.74591	0.00003	0.00037	0.00037	0.00028	1.83105
Energy	0.00377	0.06472	0.02900	0.00041	0.00522	0.00522	0.00522	176.573
Water	—	—	—	—	—	—	—	11.9908
Waste	—	—	—	—	—	—	—	95.6812
Refrig.	—	—	—	—	—	—	—	0.06989
Total	0.41850	0.30594	2.57714	0.00585	0.00948	0.52071	0.13893	795.554

3. Construction Emissions Details

3.1. Demolition (2026)

3.1.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18962	10.8750	10.8001	0.01856	0.43873	0.43873	0.40363	1,919.79
Demolition	—	—	—	—	—	0.00987	0.00149	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02281	0.20856	0.20712	0.00036	0.00841	0.00841	0.00774	36.8179
Demolition	—	—	—	—	—	0.00019	0.00003	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00416	0.03806	0.03780	0.00006	0.00154	0.00154	0.00141	6.09562
Demolition	—	—	—	—	—	0.00003	0.00001	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.02993	0.03282	0.40841	0.00000	0.00000	0.09803	0.02298	96.2644
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Hauling	0.00029	0.02217	0.00531	0.00013	0.00038	0.00555	0.00183	20.2906
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00057	0.00069	0.00819	0.00000	0.00000	0.00185	0.00043	1.87202
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00001	0.00043	0.00010	< 0.000005	0.00001	0.00011	0.00003	0.38933
Annual	—	—	—	—	—	—	—	—
Worker	0.00010	0.00013	0.00150	0.00000	0.00000	0.00034	0.00008	0.30994
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	< 0.000005	0.00008	0.00002	< 0.000005	< 0.000005	0.00002	0.00001	0.06446

3.2. Site Preparation (2026)

3.2.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.52120	13.4444	13.1519	0.02119	0.68347	0.68347	0.62879	2,303.58
Dust From Material Movement	—	—	—	—	—	2.39293	0.94998	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02084	0.18417	0.18016	0.00029	0.00936	0.00936	0.00861	31.5559
Dust From Material Movement	—	—	—	—	—	0.03278	0.01301	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00380	0.03361	0.03288	0.00005	0.00171	0.00171	0.00157	5.22444
Dust From Material Movement	—	—	—	—	—	0.00598	0.00237	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.02993	0.03282	0.40841	0.00000	0.00000	0.09803	0.02298	96.2644
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00041	0.00049	0.00585	0.00000	0.00000	0.00132	0.00031	1.33716

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Worker	0.00007	0.00009	0.00107	0.00000	0.00000	0.00024	0.00006	0.22138
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Grading (2026)

3.3.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.52120	13.4444	13.1519	0.02119	0.68347	0.68347	0.62879	2,303.58
Dust From Material Movement	—	—	—	—	—	2.80927	0.99505	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02084	0.18417	0.18016	0.00029	0.00936	0.00936	0.00861	31.5559

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Dust From Material Movement	—	—	—	—	—	0.03848	0.01363	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00380	0.03361	0.03288	0.00005	0.00171	0.00171	0.00157	5.22444
Dust From Material Movement	—	—	—	—	—	0.00702	0.00249	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.02993	0.03282	0.40841	0.00000	0.00000	0.09803	0.02298	96.2644
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.02535	1.94007	0.46462	0.01157	0.03307	0.48555	0.15997	1,775.43
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00041	0.00049	0.00585	0.00000	0.00000	0.00132	0.00031	1.33716
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00037	0.02672	0.00630	0.00016	0.00045	0.00658	0.00217	24.3329
Annual	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Worker	0.00007	0.00009	0.00107	0.00000	0.00000	0.00024	0.00006	0.22138
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00007	0.00488	0.00115	0.00003	0.00008	0.00120	0.00040	4.02859

3.4. Building Construction (2026)

3.4.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15048	9.85821	11.4601	0.02273	0.34482	0.34482	0.31724	2,166.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01801	0.15434	0.17941	0.00036	0.00540	0.00540	0.00497	33.9194
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00329	0.02817	0.03274	0.00006	0.00099	0.00099	0.00091	5.61574
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.29926	0.32819	4.08379	0.00000	0.00000	0.98025	0.22977	962.579
Vendor	0.00686	0.38350	0.11706	0.00257	0.00514	0.10301	0.03218	360.639
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00466	0.00562	0.06688	0.00000	0.00000	0.01513	0.00354	15.2808
Vendor	0.00011	0.00603	0.00181	0.00004	0.00008	0.00159	0.00050	5.64968
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Worker	0.00085	0.00103	0.01221	0.00000	0.00000	0.00276	0.00065	2.52991
Vendor	0.00002	0.00110	0.00033	0.00001	0.00001	0.00029	0.00009	0.93537
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2027)

3.5.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10319	9.47687	11.4072	0.02273	0.30915	0.30915	0.28441	2,166.54
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10319	9.47687	11.4072	0.02273	0.30915	0.30915	0.28441	2,166.54
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73834	6.34264	7.63458	0.01521	0.20690	0.20690	0.19035	1,450.01
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13475	1.15753	1.39331	0.00278	0.03776	0.03776	0.03474	240.066
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.30091	0.26040	4.98156	0.00000	0.00000	0.98025	0.22977	1,029.15
Vendor	0.00711	0.35354	0.11096	0.00257	0.00514	0.10301	0.03218	354.166

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.28438	0.29430	3.76551	0.00000	0.00000	0.98025	0.22977	944.609
Vendor	0.00661	0.36938	0.11423	0.00257	0.00514	0.10301	0.03218	353.579
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Worker	0.19033	0.21744	2.64521	0.00000	0.00000	0.64662	0.15142	640.966
Vendor	0.00459	0.24675	0.07544	0.00172	0.00344	0.06815	0.02134	236.780
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Worker	0.03473	0.03968	0.48275	0.00000	0.00000	0.11801	0.02763	106.119
Vendor	0.00084	0.04503	0.01377	0.00031	0.00063	0.01244	0.00389	39.2017
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Paving (2026)

3.6.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Off-Road Equipment	0.53591	5.00686	7.19863	0.01050	0.21085	0.21085	0.19398	1,105.75
Paving	0.24628	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00734	0.06859	0.09861	0.00014	0.00289	0.00289	0.00266	15.1473
Paving	0.00337	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00134	0.01252	0.01800	0.00003	0.00053	0.00053	0.00048	2.50781
Paving	0.00062	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.04988	0.05470	0.68068	0.00000	0.00000	0.16339	0.03830	160.441
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00068	0.00082	0.00975	0.00000	0.00000	0.00221	0.00052	2.22860
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Worker	0.00012	0.00015	0.00178	0.00000	0.00000	0.00040	0.00009	0.36897
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Architectural Coating (2027)

3.7.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15113	1.10822	1.50052	0.00230	0.02540	0.02540	0.02337	178.628
Architectural Coatings	51.0830	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Off-Road Equipment	0.00207	0.01518	0.02056	0.00003	0.00035	0.00035	0.00032	2.44696
Architectural Coatings	0.69977	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00038	0.00277	0.00375	0.00001	0.00006	0.00006	0.00006	0.40512
Architectural Coatings	0.12771	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.05688	0.05886	0.75310	0.00000	0.00000	0.19605	0.04595	188.922
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00078	0.00089	0.01083	0.00000	0.00000	0.00265	0.00062	2.62384
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Worker	0.00014	0.00016	0.00198	0.00000	0.00000	0.00048	0.00011	0.43441
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	1.23277	1.25620	12.2661	0.03341	0.02286	3.06214	0.79278	3,472.03
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.23277	1.25620	12.2661	0.03341	0.02286	3.06214	0.79278	3,472.03

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	1.16116	1.34674	10.1821	0.03135	0.02287	3.06215	0.79279	3,255.90
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.16116	1.34674	10.1821	0.03135	0.02287	3.06215	0.79279	3,255.90
Annual	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.19654	0.23418	1.80222	0.00540	0.00390	0.51513	0.13343	509.408
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.19654	0.23418	1.80222	0.00540	0.00390	0.51513	0.13343	509.408

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	556.085
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	17.1097
General Office Building	—	—	—	—	—	—	—	43.4162
Total	—	—	—	—	—	—	—	616.611
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	556.085
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	17.1097
General Office Building	—	—	—	—	—	—	—	43.4162
Total	—	—	—	—	—	—	—	616.611
Annual	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	92.0662
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	2.83270

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
General Office Building	—	—	—	—	—	—	—	7.18805
Total	—	—	—	—	—	—	—	102.087

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01962	0.33529	0.14268	0.00214	0.02711	0.02711	0.02711	426.772
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00106	0.01933	0.01624	0.00012	0.00147	0.00147	0.00147	23.1305
Total	0.02068	0.35462	0.15892	0.00226	0.02858	0.02858	0.02858	449.902
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01962	0.33529	0.14268	0.00214	0.02711	0.02711	0.02711	426.772
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00106	0.01933	0.01624	0.00012	0.00147	0.00147	0.00147	23.1305
Total	0.02068	0.35462	0.15892	0.00226	0.02858	0.02858	0.02858	449.902

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Annual	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.00358	0.06119	0.02604	0.00039	0.00495	0.00495	0.00495	70.6570
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00019	0.00353	0.00296	0.00002	0.00027	0.00027	0.00027	3.82951
Total	0.00377	0.06472	0.02900	0.00041	0.00522	0.00522	0.00522	74.4865

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	0.76392	—	—	—	—	—	—	—
Architectural Coatings	0.06998	—	—	—	—	—	—	—
Landscape Equipment	0.52794	0.05629	5.96728	0.00026	0.00294	0.00294	0.00221	16.1470
Total	1.36184	0.05629	5.96728	0.00026	0.00294	0.00294	0.00221	16.1470
Daily, Winter (Max)	—	—	—	—	—	—	—	—

Source	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	0.76392	—	—	—	—	—	—	—
Architectural Coatings	0.06998	—	—	—	—	—	—	—
Total	0.83390	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	0.13942	—	—	—	—	—	—	—
Architectural Coatings	0.01277	—	—	—	—	—	—	—
Landscape Equipment	0.06599	0.00704	0.74591	0.00003	0.00037	0.00037	0.00028	1.83105
Total	0.21818	0.00704	0.74591	0.00003	0.00037	0.00037	0.00028	1.83105

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	65.6023
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	6.82294
Total	—	—	—	—	—	—	—	72.4253
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	65.6023
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	6.82294
Total	—	—	—	—	—	—	—	72.4253
Annual	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	10.8612
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	1.12962
Total	—	—	—	—	—	—	—	11.9908

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	573.345
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	4.57508
Total	—	—	—	—	—	—	—	577.920
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	573.345
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	4.57508
Total	—	—	—	—	—	—	—	577.920
Annual	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	94.9237
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	0.00000

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Parking Lot	—	—	—	—	—	—	—	0.00000
General Office Building	—	—	—	—	—	—	—	0.75746
Total	—	—	—	—	—	—	—	95.6812

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	0.41577
General Office Building	—	—	—	—	—	—	—	0.00635
Total	—	—	—	—	—	—	—	0.42211
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	0.41577
General Office Building	—	—	—	—	—	—	—	0.00635
Total	—	—	—	—	—	—	—	0.42211
Annual	—	—	—	—	—	—	—	—

Land Use	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	0.06884
General Office Building	—	—	—	—	—	—	—	0.00105
Total	—	—	—	—	—	—	—	0.06989

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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—

Species	ROG	NOx	CO	SO2	PM10E	PM10T	PM2.5T	CO2e
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	12/1/2026	12/9/2026	5.00000	7.00000	—
Site Preparation	Site Preparation	12/10/2026	12/16/2026	5.00000	5.00000	—
Grading	Grading	12/17/2026	12/23/2026	5.00000	5.00000	—
Building Construction	Building Construction	12/24/2026	12/8/2027	5.00000	250.000	—
Paving	Paving	12/24/2026	12/30/2026	5.00000	5.00000	—
Architectural Coating	Architectural Coating	11/24/2027	11/30/2027	5.00000	5.00000	—

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	1.000000	8.00000	33.0000	0.73000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Demolition	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Site Preparation	Crawler Tractors	Diesel	Average	1.000000	8.00000	87.0000	0.43000
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Tractors/Loaders/ Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Crawler Tractors	Diesel	Average	1.000000	8.00000	87.0000	0.43000
Building Construction	Forklifts	Diesel	Average	1.000000	8.00000	82.0000	0.20000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Welders	Diesel	Average	3.00000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Rollers	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Paving	Cement and Mortar Mixers	Diesel	Average	1.000000	8.00000	10.00000	0.56000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Paving	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Paving	Paving Equipment	Diesel	Average	1.000000	8.00000	89.0000	0.36000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	8.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2000	HHDT,MHDT
Demolition	Hauling	0.28571	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	25.0000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	74.9949	18.5000	LDA,LDT1,LDT2

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	Vendor	11.4383	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	14.9990	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	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	66,300.5	22,100.2	3,913.50	1,304.50	5,671.51

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	0.00000	0.00000	0.00000	5.00000	0.00000
Site Preparation	0.00000	0.00000	5.00000	0.00000	0.00000
Grading	0.00000	1,000.000	7.50000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	2.17000

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%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Congregate Care (Assisted Living)	—	0%
Paving	Other Non-Asphalt Surfaces	1.70000	0%
Paving	Parking Lot	0.47000	100%
Paving	General Office Building	0.00000	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	346.196	0.03300	0.00400
2026	0.00000	346.196	0.03300	0.00400

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
Congregate Care (Assisted Living)	315.180	238.960	248.230	107,575	4,292.54	3,254.48	3,380.73	1,465,106
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Congregate Care (Assisted Living)	Wood Fireplaces	0	0
Congregate Care (Assisted Living)	Gas Fireplaces	0	0
Congregate Care (Assisted Living)	Propane Fireplaces	0	0
Congregate Care (Assisted Living)	Electric Fireplaces	0	0

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Congregate Care (Assisted Living)	No Fireplaces	103	103
Congregate Care (Assisted Living)	Conventional Wood Stoves	0	0
Congregate Care (Assisted Living)	Catalytic Wood Stoves	0	0
Congregate Care (Assisted Living)	Non-Catalytic Wood Stoves	0	0
Congregate Care (Assisted Living)	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	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)
66,300.5	22,100.2	3,913.50	1,304.50	5,671.51

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)
Congregate Care (Assisted Living)	582,893	346.196	0.0330	0.0040	1,327,960
Other Non-Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Parking Lot	17,934.5	346.196	0.0330	0.0040	0.00000
General Office Building	45,509.2	346.196	0.0330	0.0040	71,973.6

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Congregate Care (Assisted Living)	4,189,399	782,183
Other Non-Asphalt Surfaces	0.00000	0.00000
Parking Lot	0.00000	0.00000
General Office Building	463,707	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Congregate Care (Assisted Living)	304.071	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Parking Lot	0.00000	0.00000
General Office Building	2.42637	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Congregate Care (Assisted Living)	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Congregate Care (Assisted Living)	Household refrigerators and/or freezers	R-134a	1,430.00	0.22222	0.60000	0.00000	1.000000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	23.2500	annual days of extreme heat
Extreme Precipitation	3.30000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	8.49000	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 ¾ 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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
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	1	1	1	2
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	93.6279
AQ-PM	39.6017
AQ-DPM	17.7100
Drinking Water	10.7531
Lead Risk Housing	42.7599
Pesticides	39.2069
Toxic Releases	19.5299
Traffic	19.2750
Effect Indicators	—
CleanUp Sites	40.8361

Indicator	Result for Project Census Tract
Groundwater	2.72290
Haz Waste Facilities/Generators	83.8120
Impaired Water Bodies	0.00000
Solid Waste	70.4238
Sensitive Population	—
Asthma	49.1152
Cardio-vascular	47.7567
Low Birth Weights	62.1119
Socioeconomic Factor Indicators	—
Education	73.6269
Housing	79.5691
Linguistic	40.4385
Poverty	94.3342
Unemployment	95.7184

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	3.156679071
Employed	9.713845759

Indicator	Result for Project Census Tract
Median HI	7.108943924
Education	—
Bachelor's or higher	11.36917747
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	7.878865649
Active commuting	49.74977544
Social	—
2-parent households	10.26562299
Voting	6.300526113
Neighborhood	—
Alcohol availability	82.20197613
Park access	32.13139997
Retail density	46.36211985
Supermarket access	31.09200565
Tree canopy	1.488515334
Housing	—
Homeownership	23.90606955
Housing habitability	15.01347363
Low-inc homeowner severe housing cost burden	17.3232388

Indicator	Result for Project Census Tract
Low-inc renter severe housing cost burden	9.611189529
Uncrowded housing	62.10701912
Health Outcomes	—
Insured adults	10.45810343
Arthritis	5.1
Asthma ER Admissions	39.8
High Blood Pressure	6.7
Cancer (excluding skin)	27.6
Asthma	7.7
Coronary Heart Disease	4.3
Chronic Obstructive Pulmonary Disease	2.1
Diagnosed Diabetes	16.2
Life Expectancy at Birth	2.3
Cognitively Disabled	1.7
Physically Disabled	2.2
Heart Attack ER Admissions	28.8
Mental Health Not Good	11.5
Chronic Kidney Disease	7.4
Obesity	8.3
Pedestrian Injuries	60.0
Physical Health Not Good	8.6

Indicator	Result for Project Census Tract
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	78.7
Current Smoker	7.4
No Leisure Time for Physical Activity	9.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	34.9
English Speaking	65.2
Foreign-born	31.0
Outdoor Workers	17.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	79.2
Traffic Density	34.1
Traffic Access	23.0
Other Indices	—
Hardship	84.7
Other Decision Support	—
2016 Voting	12.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	59.0000
Healthy Places Index Score for Project Location (b)	7.00000
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

8.1. Justifications

Screen	Justification
Land Use	Adjusted based on information provided on the Site Plan.

Screen	Justification
Construction: Construction Phases	The construction start date and operational date were provided by the client, along with the number of days for each construction phase. The paving phase was set to begin concurrently with the building construction phase, and would be completed after the default amount of days. Architectural coating was set to begin approximately 2 weeks before building construction was completed, and would span the CalEEMod default amount of days.
Construction: Off-Road Equipment	Assumed all construction will be utilized 8 hours per work day. Replaced Tractors/Loaders/Backhoes with Crawler Tractors in the Site Preparation and Grading Phases.
Construction: Dust From Material Movement	Adjusted per the client's grading information to balance the site.
Operations: Vehicle Data	Adjusted rates for Weekday Trips (based on ITE 12th Edition), Saturday Trips, and Sunday Trips to match ITE trip rates for 620 – Nursing Home.
Operations: Hearths	Fireplaces and Wood Stoves are removed in accordance with SCAQMD Rule 445.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	6.43750	0.75000
Building Area	sq. ft	109,180	32,741.0
Landscape Area	sq. ft	—	40,362.0
Building Area	sq. ft	0.00000	0.02000
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	0.46800	0.47000
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	0.05989	0.06000
Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	12/29/2026	12/9/2026
Demolition	Demolition	Work Days per Phase	20.0000	7.00000
Site Preparation	Site Preparation	Start Date	12/30/2026	12/10/2026
Site Preparation	Site Preparation	End Date	1/3/2027	12/16/2026
Site Preparation	Site Preparation	Work Days per Phase	3.00000	5.00000
Grading	Grading	Start Date	1/4/2027	12/17/2026
Grading	Grading	End Date	1/12/2027	12/23/2026
Grading	Grading	Work Days per Phase	6.00000	5.00000
Building Construction	Building Construction	Start Date	1/13/2027	12/24/2026
Building Construction	Building Construction	End Date	11/17/2027	12/8/2027
Building Construction	Building Construction	Work Days per Phase	220.000	250.000
Paving	Paving	Start Date	11/18/2027	12/24/2026
Paving	Paving	End Date	12/2/2027	12/30/2026
Paving	Paving	Work Days per Phase	10.00000	5.00000
Architectural Coating	Architectural Coating	Start Date	12/3/2027	11/24/2027
Architectural Coating	Architectural Coating	End Date	12/17/2027	11/30/2027
Architectural Coating	Architectural Coating	Work Days per Phase	10.00000	5.00000

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Tractors/Loaders/Backhoes	Number per Day	3.00000	1.000000
Site Preparation	Tractors/Loaders/Backhoes	Number per Day	1.000000	0.00000
Site Preparation	Tractors/Loaders/Backhoes	Hours Per Day	7.00000	8.00000
Site Preparation	Rubber Tired Dozers	Number per Day	3.00000	1.000000
Grading	Tractors/Loaders/Backhoes	Number per Day	2.00000	0.00000
Grading	Tractors/Loaders/Backhoes	Hours Per Day	7.00000	8.00000
Building Construction	Forklifts	Number per Day	2.00000	1.000000
Building Construction	Forklifts	Hours Per Day	7.00000	8.00000
Building Construction	Tractors/Loaders/Backhoes	Hours Per Day	6.00000	8.00000
Paving	Rollers	Number per Day	2.00000	1.000000
Architectural Coating	Air Compressors	Hours Per Day	6.00000	8.00000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Site Preparation	Material Imported	Cubic Yards	—	0.00000
Site Preparation	Material Exported	Cubic Yards	—	0.00000
Site Preparation	Total Acres Graded	acres	7.50000	5.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Congregate Care (Assisted Living)	Weekday Trip Rate	size/day	2.60000	3.06000
Congregate Care (Assisted Living)	Saturday Trip Rate	size/day	2.93000	2.32000
Congregate Care (Assisted Living)	Sunday Trip Rate	size/day	3.15000	2.41000
Congregate Care (Assisted Living)	Res H-W Trip Length	miles	17.7130	17.4561
Congregate Care (Assisted Living)	Res H-S Trip Length	miles	8.99125	9.25967
Congregate Care (Assisted Living)	Res H-O Trip Length	miles	5.46927	9.27228
Congregate Care (Assisted Living)	Res H-W Trip	%	18.0154	53.1247
Congregate Care (Assisted Living)	Res H-S Trip	%	7.46354	4.44535
Congregate Care (Assisted Living)	Res H-O Trip	%	74.5210	42.4299
General Office Building	Weekday Trip Rate	size/day	9.74000	0.00000
General Office Building	Saturday Trip Rate	size/day	2.21000	0.00000
General Office Building	Sunday Trip Rate	size/day	0.70000	0.00000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Congregate Care (Assisted Living)	Wood Fireplaces	—	5	0
Congregate Care (Assisted Living)	Gas Fireplaces	—	88	0
Congregate Care (Assisted Living)	No Fireplaces	—	10	103
Congregate Care (Assisted Living)	Hours/Day	—	3	0

Land Use	Model Parameter	Units	Default Value	New Value
Congregate Care (Assisted Living)	Days/Year	—	25	0
Congregate Care (Assisted Living)	Wood Mass	lb/year	1,019	0
Congregate Care (Assisted Living)	Catalytic Wood Stoves	—	5	0
Congregate Care (Assisted Living)	Non-Catalytic Wood Stoves	—	5	0
Congregate Care (Assisted Living)	Days/Year	—	25	0
Congregate Care (Assisted Living)	Wood Mass	lb/year	1,000	0

ATTACHMENT B: DETAILED CALCULATION SHEETS

Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
2026 (Year 1)						
Maximum Daily Emissions (2026)	2.3	15.6	23.5	0.0	3.2	1.7
2027 (Year 2)						
Maximum Daily Emissions (2027)	52.7	11.3	17.5	0.0	1.6	0.6
Maximum Daily Emissions	**52.7**	**15.6**	**23.5**	**0.0**	**3.2**	**1.7**
SCAQMD Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter

Source: CalEEMod Output Sheets.

Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
2026 (Year 1)						
Demolition	**1.2**	**10.9**	**11.2**	**0.0**	**0.6**	**0.4**
Off-Road	1.2	10.9	10.8	0.0	0.4	0.4
Demolition					0.0	0.0
Off-Site (Worker Trip)	0.0	0.0	0.4	0.0	0.1	0.0
Off-Site (Hauling Trip)	0.0	0.0	0.0	0.0	0.0	0.0
Site Preparation	**1.6**	**13.5**	**13.6**	**0.0**	**2.8**	**1.6**
Off-Road	1.5	13.4	13.2	0.0	0.7	0.6
Dust From Material Movement					2.0	0.9
Off-Site (Worker Trip)	0.0	0.0	0.4	0.0	0.1	0.0
Grading	**1.6**	**15.5**	**14.0**	**0.0**	**3.3**	**1.7**
Off-Road	1.5	13.4	13.2	0.0	0.7	0.6
Dust From Material Movement					2.0	0.9
Off-Site (Worker Trip)	0.0	0.0	0.4	0.0	0.1	0.0
Off-Site (Hauling Trip)	0.0	2.0	0.5	0.0	0.5	0.2
Building Construction	**1.5**	**10.6**	**15.6**	**0.0**	**1.4**	**0.6**
Off-Road	1.2	9.9	11.5	0.0	0.3	0.3
Off-Site (Worker Trip)	0.3	0.3	4.0	0.0	1.0	0.2
Off-Site (Vendor Trip)	0.0	0.4	0.1	0.0	0.1	0.0
Building Construction and Paving	**2.3**	**15.6**	**23.5**	**0.0**	**1.8**	**0.8**
Off-Road	1.7	14.9	18.7	0.0	0.6	0.5
Paving	0.2	0.0	0.0	0.0	0.0	0.0
Off-Site (Worker Trip)	0.3	0.4	4.7	0.0	1.1	0.3
Off-Site (Vendor Trip)	0.0	0.4	0.1	0.0	0.1	0.0
Maximum Daily Emissions (2026)	***2.3***	***15.6***	***23.5***	***0.0***	***3.3***	***1.7***
2027 (Year 2)						
Building Construction	**1.4**	**10.1**	**16.5**	**0.0**	**1.4**	**0.5**
Off-Road	1.1	9.5	11.4	0.0	0.3	0.3
Off-Site (Worker Trip)	0.3	0.3	5.0	0.0	1.0	0.2
Off-Site (Vendor Trip)	0.0	0.4	0.1	0.0	0.1	0.0
Building Construction and Architectural Coating	**54.1**	**11.3**	**18.8**	**0.0**	**1.6**	**0.6**
Off-Road	1.3	10.6	12.9	0.0	0.3	0.3
Architectural Coating	52.5					
Off-Site (Worker Trip)	0.4	0.3	5.7	0.0	1.2	0.3
Off-Site (Vendor Trip)	0.0	0.4	0.1	0.0	0.1	0.0
Architectural Coating	**52.7**	**1.2**	**2.3**	**0.0**	**0.2**	**0.1**
Off-Road	0.2	1.1	1.5	0.0	0.0	0.0
Architectural Coating	52.5					
Off-Site (Worker Trip)	0.1	0.1	0.8	0.0	0.2	0.0
Maximum Daily Emissions (2027)	***54.1***	***11.3***	***18.8***	***0.0***	***1.6***	***0.6***
Maximum Daily Emissions	**54.1**	**15.6**	**23.5**	**0.0**	**3.3**	**1.7**
SCAQMD Thresholds	*75*	100	*550*	150	150	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter

Source: CalEEMod Output Sheets.

Calendar.Y	EMFAC2007	Weighted_	Weighted_ROG_VMT	Weighted_	Weighted_NOx_VMT	Weighted_	Weighted_PM10_VMT
2026	MHDT	1.005794	1.005891427	1.026844	1.026203899	1.014291	1.014000801
2026	HHDT	1.008937	1.007888341	1.026521	1.024192193	1.010868	1.00871352
2027	MHDT	1.010783	1.010876543	1.045633	1.044475736	1.024582	1.024048848
2027	HHDT	1.014271	1.012452886	1.041698	1.03765143	1.017657	1.014016617

	ROG	NOx	CO	SOx	PM10	PM2.5
	0.30	**0.05**	**0.68**	**0.00**	**0.16**	**0.04**
Off-Road Equipment	0.5	5.0	7.2	0.0	0.2	0.2
Paving	0.2					
Off-Site (Worker Trip)	0.0	0.1	0.7	0.0	0.2	0.0

Weighted_P	Weighted_PM2.5_VMT
1.0121785	1.012039916
1.0100997	1.008119405
1.0213828	1.021061898
1.0163976	1.013033151

Proposed Operational Emissions

Operational Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
SUMMER						
Mobile	1.2	1.3	12.3	0.0	3.1	0.8
Area	1.4	0.1	6.0	0.0	0.0	0.0
Energy	0.0	0.4	0.2	0.0	0.0	0.0
Total Summer Proposed Project Operational Emissions	***2.6***	***1.7***	***18.5***	***0.0***	***3.1***	***0.8***
Winter						
Mobile	1.2	1.3	10.2	0.0	3.1	0.8
Area	0.9	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.4	0.2	0.0	0.0	0.0
Total Winter Proposed Project Operational Emissions	***2.0***	***1.7***	***10.3***	***0.0***	***3.1***	***0.8***
Maximum						
Mobile	1.2	1.3	12.3	0.0	3.1	0.8
Area	1.4	0.1	6.0	0.0	0.0	0.0
Energy	0.0	0.4	0.2	0.0	0.0	0.0
Maximum Operational Emissions	**2.6**	**1.8**	**18.5**	**0.0**	**3.1**	**0.8**
SCAQMD Significance Thresholds	*55*	*55*	*550*	150	150	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Net Operational Emissions	**1.5**	**1.0**	**10.6**	**0.0**	**1.8**	**0.4**

Existing Project Operational Emissions

Operational Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Summer						
Mobile	0.5	0.5	5.2	0.0	1.3	0.3
Area	0.6	0.0	2.6	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Total Summer Proposed Project Operational Emissions	***1.1***	***0.7***	***7.9***	***0.0***	***1.3***	***0.4***
Winter						
Mobile	0.5	0.6	4.3	0.0	1.3	0.3
Area	0.3	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Total Winter Proposed Project Operational Emissions	***0.9***	***0.7***	***4.4***	***0.0***	***1.3***	***0.4***
Maximum						
Mobile	0.5	0.6	5.2	0.0	1.3	0.3
Area	0.6	0.0	2.6	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Maximum Operational Emissions	**1.1**	**0.8**	**7.9**	**0.0**	**1.3**	**0.4**
SCAQMD Significance Thresholds	*55*	*55*	*550*	150	150	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Localized Construction Emission Estimates

Construction Activity	Maximum Daily Localized Emissions (pounds/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
2026 (Year 1)				
Demolition	10.9	10.8	0.4	0.4
Site Preparation	13.4	13.2	2.7	1.5
Grading	13.4	13.2	2.7	1.5
Building Construction	9.9	11.5	0.3	0.3
Building Construction and Paving	14.9	18.7	0.6	0.5
Maximum On-site Emission (2026)	14.9	18.7	2.7	1.5
2027 (Year 2)				
Building Construction	9.5	11.4	0.3	0.3
Building Construction and Architectural Coating	10.6	12.9	0.3	0.3
Architectural Coating	1.1	1.5	0.0	0.0
Maximum On-site Emission (2027)	10.6	12.9	0.3	0.3
Maximum On-site Emission	**14.9**	**18.7**	**2.7**	**1.5**
SCAQMD Screening Thresholds	198.0	925.0	5.5	3.5
Threshold Exceeded?	**No**	**No**	**No**	**No**

Construction Equipment Modeled in CalEEMod and Acres Disturbed Per Day

Activity	Equipment Type	Equipment Quantity	Operating Hours per Day	Acres Disturbed per Piece of Equipment per Day	Acres Disturbed per Day
				Total Acres Disturbed Per Day	
Site Preparation	Crawler Tractors	1	8	0.5	0.5
	Graders	1	8	0.5	0.5
	Rubber Tired Dozers	1	8	0.5	0.5
				Total Acres Disturbed Per Day	**1.5**
Grading	Graders	1	8	0.5	0.5
	Rubber Tired Dozers	1	8	0.5	0.5
	Crawler Tractors	1	8	0.5	0.5
				Total Acres Disturbed Per Day	1.5
				Maximum Acres Disturbed Per Day	**1.5**

Source: CalEEMod Output Sheets.

Construction Equipment Fuel Usage (Off-Road)

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)	
Demolition	Concrete/Industrial Saws	1	8	33	0.73	7	1,349	0.04295075	58	
	Tractors/Loaders/Backhoes	1	8	84	0.37	7	1,740	0.04637299	81	
	Rubber Tired Dozers	1	8	367	0.4	7	8,221	0.04739936	390	
Site Preparation	Crawler Tractors	1	8	87	0.43	5	1,496	0.05041578	75	
	Graders	1	8	148	0.41	5	2,427	0.05198203	126	
	Rubber Tired Dozers	1	8	367	0.4	5	5,872	0.04739936	278	
Grading	Graders	1	8	148	0.41	5	2,427	0.05198203	126	
	Rubber Tired Dozers	1	8	367	0.4	5	5,872	0.04739936	278	
	Crawler Tractors	1	8	87	0.43	5	1,496	0.05041578	75	0.149797172
Building Construction	Forklifts	1	8	82	0.2	250	32,800	0.05343999	1,753	0.762325037
	Cranes	1	8	367	0.29	250	212,860	0.05388133	11,469	
	Tractors/Loaders/Backhoes	1	8	84	0.37	250	62,160	0.04637299	2,883	
	Generator Sets	1	8	14	0.74	250	20,720	0.09412483	1,950	
	Welders	3	8	46	0.45	250	124,200	0.03435461	4,267	
Paving	Pavers	1	8	81	0.42	5	1,361	0.05163287	70	
	Rollers	1	8	36	0.38	5	547	0.05346164	29	
	Cement and Mortar Mixers	1	8	10	0.56	5	224	0.05217442	12	
	Tractors/Loaders/Backhoes	1	8	84	0.37	5	1,243	0.04637299	58	
	Paving Equipment	1	8	89	0.36	5	1,282	0.66377762	851	
Architectual Coating	Air Compressors	1	8	37	0.48	5	710	0.6913296	491	
								Total	**25,320**	

Source: Fuel Calculation Sheets (see Attachment C.1)

Model Output: OFFROAD2021 (v1.0.9) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower E	Fuel	Fuel Consur	Horsepower_Hours_	Fuel Rate
Riverside (SC)	2027	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	191238.43	4034620.644	0.047399
Riverside (SC)	2027	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	11953.75	257773.95	0.046373
Riverside (SC)	2027	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	761987.84	14658677.94	0.051982
Riverside (SC)	2027	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	5113147.8	100015614.7	0.051123
Riverside (SC)	2027	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	1982973.9	41222034.97	0.048105
Riverside (SC)	2027	Industrial - Forklifts	Aggregate	Aggregate	Diesel	381527.71	7139366.867	0.05344
Riverside (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	210409.61	2235431.55	0.094125
Riverside (SC)	2027	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	589160.85	10934416.28	0.053881
Riverside (SC)	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	209758.35	6105683.5	0.034355
Riverside (SC)	2027	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	331428.21	6418938.987	0.051633
Riverside (SC)	2027	Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	64560.04	97261.55	0.663778
Riverside (SC)	2027	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	890223.3	16651627.16	0.053462
Riverside (SC)	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Gasoline	1752867.4	2535501.7	0.69133
Riverside (SC)	2027	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2328.0382	54202.5	0.042951
Riverside (SC)	2027	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Gasoline	1617601.4	32085218.02	0.050416
Riverside (SC)	2027	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	2133252.3	43834291.49	0.048666
Riverside (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Gasoline	363491.66	1610288.75	0.225731
Riverside	2027	Construction and Mining - Other Construction Equipment	Aggregate	Aggregate	Diesel	835750.06	16018385.82	0.052174

Construction On-Road Fuel Consumption

Construction Source	Total Trips	VMT	Fuel Rate (Miles/Gallons)	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Haul Trucks	125.0	2500.0	6.4	393.6	-
Vendor Trucks	5,719.2	58335.4	8.0	7,336.8	-
Worker Vehicles	38,027.4	703507.5	28.1	-	25,025.1
			Total	**7,730.5**	**25,025.1**

Source: CalEEMod Output Sheets (see Attachment B)

	Duration(days)
Demo	7
SP	5
GR	5
BC	250
PV	5
C	5

5.3. Construction Vehicles

5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor		10.2	HHDT,MHDT
Demolition	Hauling	0.285714286	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Preparation	Worker	7.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor		10.2	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck			HHDT
Grading	Worker	7.5	18.5	LDA,LDT1,LDT2
Grading	Vendor		10.2	HHDT,MHDT
Grading	Hauling	25	20	HHDT
Grading	Onsite truck			HHDT
Building Construction	Worker	74.9948884	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	11.43831838	10.2	HHDT,MHDT
Building Construction	Hauling	0	20	HHDT
Building Construction	Onsite truck			HHDT
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor		10.2	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating	Worker	14.99897768	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor		10.2	HHDT,MHDT
Architectural Coating	Hauling	0	20	HHDT
Architectural Coating	Onsite truck			HHDT

	Weighted Vendor	
MHD	9.07	0.5882
HHD	6.35	0.4118

	Weighted Worker	
LDA	31.49	0.376563
LDT1	26.01	0.31099
LDT2	26.13	0.312446
	83.63	

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027 2027 Construction start year
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT ar

Calendar Year	Vehicle Category	Model Year	Speed
2027	MHDT	Aggregate	Aggregate
2027	HHDT	Aggregate	Aggregate

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consu	Fuel Rate	
Riverside (SC)		LDA	Aggregate	Aggregate	Diesel	580928.6	64.04015	9.07	100%
Riverside (SC)		LDT1	Aggregate	Aggregate	Diesel	2023648	318.642	6.35	100%
Riverside (SC)		LDT2	Aggregate	Aggregate		Weighted Vendor		7.95103	

HAULING TRIPS

	CalEEMod Daily Trucks	CY/per truck	CY	Total Trucks	Miles	Truck Miles			
Import	*25*	*16*		0	20.0	0			
Export	*25*	*16*	1000	63	20.0	2500	mpg	gal fuel	
				63		2500	10.2	245.10	

Fuel	VMT	Fuel Consumption		
Gasoline	20354485	646.3182	31.49	100%
Gasoline	1456607	56.00412	26.01	100%
Gasoline	9414153	360.2721	26.13	100%
	GP From Vehicle Splits		28.11206	

Construction Fuel Consumption Summary

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	7,730	25,025
Off-Road Construction Equipment	25,320	-
Total	**33,050**	**25,025**
Countywide	50,504,775	430,881,898.5
Percentage Increase	**0.0654%**	**0.0058%**

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory
Region Type: County
Region: Riverside
Calendar Year: 2027
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Yea	Horsepowe	Fuel	Fuel Consun	Total_Activity_I	Total_Popu	Horsepower_Hours_hhp
Riverside		2027 Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	2235.2763	1113.590958	2.23529	43560.23
Riverside		2027 Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	22740.621	6350.790755	9.730586	447677.4
Riverside		2027 Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	11685.495	5495.742186	23.15044	212053.1
Riverside		2027 Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	589160.85	129431.8064	507.6858	10934416
Riverside		2027 Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	1617601.4	334455.7757	794.8067	32085218
Riverside		2027 Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	86248.531	18797.45221	32.34596	1703124
Riverside		2027 Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	5113147.8	1723483.29	2998.645	1E+08
Riverside		2027 Construction and Mining - Graders	Aggregate	Aggregate	Diesel	761987.84	170304.4211	465.5778	14658678
Riverside		2027 Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	1457.5387	296.6549602	0.525951	28893.66
Riverside		2027 Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Gasoline	34258.332	0	1981.986	0
Riverside		2027 Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Diesel	59.3987	0	45.92933	0
Riverside		2027 Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	44244.648	4208.45	284.3283	194705.6
Riverside		2027 Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2328.0382	1642.5	4.207846	54202.5
Riverside		2027 Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	4956.7	1660.75	3.96	105225.8
Riverside		2027 Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	3566.13	87.6	132.9435	5781.6
Riverside		2027 Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	4.8036	0	1.940776	0
Riverside		2027 Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	34.2311	0	3.043203	0
Riverside		2027 Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	7599.3	1387	6.318226	174762
Riverside		2027 Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	127.7443	0	29.32446	0
Riverside		2027 Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	9.0413	0	1.204106	0
Riverside		2027 Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	64560.04	2273.95	1420.309	97261.55
Riverside		2027 Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	15.3327	0	2.981239	0
Riverside		2027 Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	31222.966	4763.25	149.4669	294828.8
Riverside		2027 Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	262.08	0	80.40557	0
Riverside		2027 Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	18622.3	5153.8	10.51663	350400
Riverside		2027 Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	6.2821	0	0.791209	0
Riverside		2027 Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Gasoline	11953.75	4091.65	5.594928	257773.9
Riverside		2027 Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Diesel	163.62	0	22.37446	0
Riverside		2027 Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	2133252.3	250823.3999	323.301	43834291
Riverside		2027 Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	331428.21	101981.4377	210.815	6418939
Riverside		2027 Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	366756.68	114967.8246	219.6468	7153092
Riverside		2027 Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	890223.3	465815.7903	1064.295	16651627
Riverside		2027 Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	191238.43	35545.31736	66.14988	4034621
Riverside		2027 Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	3740964.2	954186.265	1395.041	74352309
Riverside		2027 Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	1982973.9	225940.2349	699.2061	41222035
Riverside		2027 Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1777065.8	1168103.602	2594.296	31823480
Riverside		2027 Construction and Mining - Spray Truck	Aggregate	Aggregate	Diesel	21680.467	7532.285673	13.67508	420772.4
Riverside		2027 Construction and Mining - Tanker Truck Trailer	Aggregate	Aggregate	Diesel	2811.7388	1111.108179	1.70934	53972.69
Riverside		2027 Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	5055567.6	2294074.626	4478.258	94590090
Riverside		2027 Construction and Mining - Water Truck	Aggregate	Aggregate	Diesel	168014.78	25897.99654	44.5902	3333269
Riverside		2027 Industrial - Forklifts	Aggregate	Aggregate	Diesel	381527.71	362699.7298	766.1708	7139367
Riverside		2027 Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Gasoline	75515.147	21724.8	69.56394	1090543
Riverside		2027 Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	14.1209	0	2.643102	0
Riverside		2027 Industrial - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	112400.66	47949.80955	108.7137	2218224
Riverside		2027 Industrial - Other Truck	Aggregate	Aggregate	Diesel	67267.002	12588.45191	18.89109	1337638
Riverside		2027 Industrial - Railcars or Track Cars	Aggregate	Aggregate	Diesel	5186.1559	1433.251246	2.379481	102913.8
Riverside		2027 Industrial - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	22685.316	13700.59976	47.45597	405719.3
Riverside		2027 Industrial - Tow Tractor	Aggregate	Aggregate	Diesel	153.30813	19.10194082	0.035505	3039.119
Riverside		2027 Industrial - Yard Goat	Aggregate	Aggregate	Diesel	180005.63	51981.59732	44.17195	3578979
Riverside		2027 Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Gasoline	1752867.4	38846.95	18307.81	2535502
Riverside		2027 Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Diesel	38692.764	33660.3	51.24513	1245431
Riverside		2027 Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Electric	0	0	223250.1	0
Riverside		2027 Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Gasoline	2945862.4	82453.5	119836.3	3445494
Riverside		2027 Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	210409.61	67740.35	773.4128	2235432
Riverside		2027 Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Electric	0	0	21590.58	0
Riverside		2027 Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Nat Gas	14943.1	1733.75	15.55	194260.3
Riverside		2027 Light Commercial - Misc - Pumps	Aggregate	Aggregate	Gasoline	363491.66	24068.1	10272.85	1610289
Riverside		2027 Light Commercial - Misc - Pumps	Aggregate	Aggregate	Diesel	114882.15	35364.85	410.5232	1308499
Riverside		2027 Light Commercial - Misc - Pumps	Aggregate	Aggregate	Electric	0	0	117445.6	0
Riverside		2027 Light Commercial - Misc - Welders	Aggregate	Aggregate	Gasoline	755705.42	40945.7	13673.36	2456870
Riverside		2027 Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	209758.35	132732.25	417.8049	6105684
Riverside		2027 Light Commercial - Misc - Welders	Aggregate	Aggregate	Electric	0	0	57643.6	0
Riverside		2028 Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	479499.4	85585.67901	146.9614	9650913
Riverside		2028 Construction and Mining - Bucket	Aggregate	Aggregate	Diesel	11598.992	3403.661299	6.209717	221783.7
Riverside		2028 Construction and Mining - Compactor	Aggregate	Aggregate	Diesel	18568.943	5880.569937	10.17919	365204.4
Riverside		2028 Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	1689.7727	858.5017927	1.730694	33687.95
Riverside		2028 Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	17678.501	4907.648075	7.533095	346813.2
Riverside		2028 Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	9479.9695	4242.222292	17.92207	163676.9
Riverside		2028 Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	468206.57	100453.0701	393.0228	8486400
Riverside		2028 Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	1264836.8	259296.1389	615.3479	24867301
Riverside		2028 Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	66383.042	14469.12088	25.03933	1310677
Riverside		2028 Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	3953625.4	1330509.346	2321.474	77262422
Riverside		2028 Construction and Mining - Graders	Aggregate	Aggregate	Diesel	605769.1	132062.4289	360.4661	11359725
Riverside		2028 Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	1120.8865	227.9191063	0.407137	22220
Riverside		2028 Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	1874.45	430.7	3.939611	18122.25
Riverside		2028 Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	1197.75	113.15	3.471599	9957.2
Riverside		2028 Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	32.9	0	5.374181	0
Riverside		2028 Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Gasoline	8099.8	0	469.0329	0
Riverside		2028 Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Diesel	47.45	0	36.69034	0
Riverside		2028 Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	9831.8	821.25	66.73655	38022.05
Riverside		2028 Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	1855.85	1343.2	3.40761	44325.6
Riverside		2028 Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	1003.75	328.5	0.74	20257.5
Riverside		2028 Construction and Mining - Misc - Crushing/Proc. Equipmen	Aggregate	Aggregate	Gasoline	47.8	0	0.356403	0
Riverside		2028 Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	833.6	0	31.35954	0
Riverside		2028 Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	3.83	0	1.548954	0
Riverside		2028 Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	27.3	0	2.428986	0
Riverside		2028 Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	1481.9	270.1	1.2456	34032.6
Riverside		2028 Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	102.1	0	23.45186	0
Riverside		2028 Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	7.21	0	0.96001	0
Riverside		2028 Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	15035.95	438	335.0632	18640.55
Riverside		2028 Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	12.2	0	2.378101	0
Riverside		2028 Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	5548.2	0	183.7121	0
Riverside		2028 Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	34.2	0	21.23308	0
Riverside		2028 Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	6582.5	938.05	34.78144	57732.05
Riverside		2028 Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	209.9	0	64.25438	0
Riverside		2028 Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	6774.4	1328.6	3.26	108770
Riverside		2028 Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	3642.7	1011.05	2.03904	68941.2
Riverside		2028 Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	4.98	0	0.627054	0
Riverside		2028 Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	157.32	0	2.217081	0
Riverside		2028 Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1347.95	485.45	186.5456	17961.65
Riverside		2028 Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	13811.95	3525.9	35.15686	176601.6
Riverside		2028 Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1400	0	247.6706	0
Riverside		2028 Construction and Mining - Misc - Surfacing Equipment	Aggregate	Aggregate	Gasoline	6740	0	89.8766	0
Riverside		2028 Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	841	0	46.67558	0
Riverside		2028 Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Gasoline	2328.7	799.35	1.08101	50359.05
Riverside		2028 Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Diesel	131	0	17.8838	0
Riverside		2028 Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Gasoline	11931.4	2544.05	31.96041	99316.5
Riverside		2028 Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Diesel	175.7	0	27.74266	0
Riverside		2028 Construction and Mining - Nurse Rig Other	Aggregate	Aggregate	Diesel	105.85888	58.29177749	0.101784	2098.504
Riverside		2028 Construction and Mining - Off-Highway Tractors	Aggregate	Aggregate	Diesel	712771.65	212879.8088	280.8503	13910841

Operational Energy Consumption

Operational Source	Energy Usage	Countywide Energy Consumption	Percentage Increase
Electricity (Kilowatt-Hour)			
Proposed Project	646,337		
Existing Project	313,592		
Net	332,746	16,286,000,000.0	0.0020%
Natural Gas (Thousands British Thermal Units)			
Proposed Project	1,399,933		
Existing Project	639,257		
Net	760,676	42,670,000,000.0	0.0018%
Petroleum (Gasoline) Consumption			
Proposed Project	52,117		
Existing Project	22,263		
Net	**29,853**	430,881,898.5	0.0069%

Source: CalEEMod Output Sheets (see Attachment B)

Proposed

CalEEMod Output

Land Use Type	VMT/Year
Congregate Care (Assisted Living)	1465106.474
Other Non-Asphalt Surfaces	0
Parking Lot	0

Other Non-Asphalt Surfaces
5.11. Operational Energy Consumption
5.11.1 Unmitigated

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
Congregate Care (Assisted Living)	582893.3571	1327959.676
Other Non-Asphalt Surfaces	0	0
Parking Lot	17934.5232	0
General Office Building	45509.23609	71973.581
		0

Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, kWh/day for

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Fuel Consumpt
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Gasoline	0.069141356
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	511.4778146
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	442.5918383
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Diesel	0.649427753
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	48.27301373
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Diesel	0.012058467
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	326.6336318
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Diesel	0.465596967
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Gasoline	35.22468605
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Diesel	18.74132768
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Gasoline	8.732188926
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Diesel	20.46871194
Riverside (SC)	2027	MCY	Aggregate	Aggregate	Gasoline	3.159616504
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Gasoline	293.5427178
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Diesel	8.452226625
Riverside (SC)	2027	MH	Aggregate	Aggregate	Gasoline	7.951119814
Riverside (SC)	2027	MH	Aggregate	Aggregate	Diesel	1.521107845
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Gasoline	11.49448865
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	58.02197449
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Gasoline	1.498634211
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Diesel	1.432474562
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Gasoline	1.327274679
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Diesel	1.079928206

	Diesel	622.322649	227147766.9
	Gasoline	1180.49835	430881898.5
Total		1802.821	

Total 1802.821

COUNTYWIDE NATURAL GAS CONSUMPTION https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards

427 MM Therms
42,670,000,000.00 Therms

Existing

CalEEMod Output

Land Use Type	VMT/Year
Congregate Care	625870.7268
General Office B	0
Parking Lot	0

Other Non-Asphalt Surfaces
5.11. Operational Energy Consumption
5.11.1 Unmitigated

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
Congregate Care	249002.9875	567283.75
General Office B	45509.23609	71973.58
Parking Lot	19079.28	0
		0
		0

Construction Fuel Consumption Summary

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Countywide	50,504,775.2	430,881,898.5

Diesel	50504775.2
Gasoline	30627408.4

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory
Region Type: County
Region: Riverside
Calendar Year: 2027-2031
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Yea	Horsepow	Fuel	Fuel Consum	Total_Activi	Total_Popı	Horsepower_Hours_hhp
Riverside	2027	Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	2235.2763	1113.591	2.23529	43560.22977
Riverside	2027	Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	22740.6212	6350.7908	9.730586	447677.4129
Riverside	2027	Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	11685.4954	5495.7422	23.15044	212053.061
Riverside	2027	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	589160.854	129431.81	507.6858	10934416.28
Riverside	2027	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	1617601.42	334455.78	794.8067	32085218.02
Riverside	2027	Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	86248.5315	18797.452	32.34596	1703123.765
Riverside	2027	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	5113147.79	1723483.3	2998.645	100015614.7
Riverside	2027	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	761987.842	170304.42	465.5778	14658677.94
Riverside	2027	Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	1457.53873	296.65496	0.525951	28893.66236
Riverside	2027	Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Gasoline	34258.332	0	1981.986	0
Riverside	2027	Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Diesel	59.3987	0	45.92933	0
Riverside	2027	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	44244.648	4208.45	284.3283	194705.6
Riverside	2027	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2328.0382	1642.5	4.207846	54202.5
Riverside	2027	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	4956.7	1660.75	3.96	105225.85
Riverside	2027	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	3566.13	87.6	132.9435	5781.6
Riverside	2027	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	4.8036	0	1.940776	0
Riverside	2027	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	34.2311	0	3.043203	0
Riverside	2027	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	7599.3	1387	6.318226	174762
Riverside	2027	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	127.7443	0	29.32446	0
Riverside	2027	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	9.0413	0	1.204106	0
Riverside	2027	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	64560.04	2273.95	1420.309	97261.55
Riverside	2027	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	15.3327	0	2.981239	0
Riverside	2027	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	31222.966	4763.25	149.4669	294828.75
Riverside	2027	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	262.08	0	80.40557	0
Riverside	2027	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	18622.3	5153.8	10.51663	350400
Riverside	2027	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	6.2821	0	0.791209	0
Riverside	2027	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Gasoline	11953.75	4091.65	5.594928	257773.95
Riverside	2027	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Diesel	163.62	0	22.37446	0
Riverside	2027	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	2133252.31	250823.4	323.301	43834291.49
Riverside	2027	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	331428.214	101981.44	210.815	6418938.987
Riverside	2027	Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	366756.675	114967.82	219.6468	7153092.238
Riverside	2027	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	890223.299	465815.79	1064.295	16651627.16
Riverside	2027	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	191238.426	35545.317	66.14988	4034620.644
Riverside	2027	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	3740964.23	954186.27	1395.041	74352308.96
Riverside	2027	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	1982973.94	225940.23	699.2061	41222034.97
Riverside	2027	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1777065.8	1168103.6	2594.296	31823479.55
Riverside	2027	Construction and Mining - Spray Truck	Aggregate	Aggregate	Diesel	21680.4674	7532.2857	13.67508	420772.356
Riverside	2027	Construction and Mining - Tanker Truck Trailer	Aggregate	Aggregate	Diesel	2811.73877	1111.1082	1.70934	53972.68988
Riverside	2027	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	5055567.55	2294074.6	4478.258	94590089.88
Riverside	2027	Construction and Mining - Water Truck	Aggregate	Aggregate	Diesel	168014.783	25897.997	44.5902	3333269.445
Riverside	2027	Industrial - Forklifts	Aggregate	Aggregate	Diesel	381527.709	362699.73	766.1708	7139366.867
Riverside	2027	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Gasoline	75515.1472	21724.8	69.56394	1090543.35
Riverside	2027	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	14.1209	0	2.643102	0
Riverside	2027	Industrial - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	112400.66	47949.81	108.7137	2218223.504
Riverside	2027	Industrial - Other Truck	Aggregate	Aggregate	Diesel	67267.002	12588.452	18.89109	1337638.039
Riverside	2027	Industrial - Railcars or Track Cars	Aggregate	Aggregate	Diesel	5186.15586	1433.2512	2.379481	102913.829
Riverside	2027	Industrial - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	22685.3162	13700.6	47.45597	405719.3302
Riverside	2027	Industrial - Tow Tractor	Aggregate	Aggregate	Diesel	153.308129	19.101941	0.035505	3039.118784
Riverside	2027	Industrial - Yard Goat	Aggregate	Aggregate	Diesel	180005.628	51981.597	44.17195	3578978.579
Riverside	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Gasoline	1752867.38	38846.95	18307.81	2535501.7
Riverside	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Diesel	38692.7644	33660.3	51.24513	1245431.1
Riverside	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Electric	0	0	223250.1	0
Riverside	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Gasoline	2945862.41	82453.5	119836.3	3445494.15
Riverside	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	210409.612	67740.35	773.4128	2235431.55
Riverside	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Electric	0	0	21590.58	0
Riverside	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Nat Gas	14943.1	1733.75	15.55	194260.3
Riverside	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Gasoline	363491.661	24068.1	10272.85	1610288.75
Riverside	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Diesel	114882.154	35364.85	410.5232	1308499.45
Riverside	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Electric	0	0	117445.6	0
Riverside	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Gasoline	755705.42	40945.7	13673.36	2456869.75
Riverside	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	209758.347	132732.25	417.8049	6105683.5
Riverside	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Electric	0	0	57643.6	0
Riverside	2028	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	479499.403	85585.679	146.9614	9650913.365
Riverside	2028	Construction and Mining - Bucket	Aggregate	Aggregate	Diesel	11598.9916	3403.6613	6.209717	221783.6776
Riverside	2028	Construction and Mining - Compactor	Aggregate	Aggregate	Diesel	18568.9431	5880.5699	10.17919	365204.3875
Riverside	2028	Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	1689.77267	858.50179	1.730694	33687.94679
Riverside	2028	Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	17678.5009	4907.6481	7.533095	346813.1953
Riverside	2028	Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	9479.96953	4242.2223	17.92207	163676.8985
Riverside	2028	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	468206.572	100453.07	393.0228	8486400.335
Riverside	2028	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	1264836.79	259296.14	615.3479	24867301.39
Riverside	2028	Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	66383.0424	14469.121	25.03933	1310676.602
Riverside	2028	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	3953625.45	1330509.3	2321.474	77262422.26
Riverside	2028	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	605769.104	132062.43	360.4661	11359724.8
Riverside	2028	Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	1120.8865	227.91911	0.407137	22220.00374
Riverside	2028	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	1874.45	430.7	3.939611	18122.25
Riverside	2028	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	1197.75	113.15	3.471599	9957.2
Riverside	2028	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	32.9	0	5.374181	0
Riverside	2028	Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Gasoline	8099.8	0	469.0329	0
Riverside	2028	Construction and Mining - Misc - Cement And Mortar Mixe	Aggregate	Aggregate	Diesel	47.45	0	36.69034	0
Riverside	2028	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	9831.8	821.25	66.73655	38022.05
Riverside	2028	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	1855.85	1343.2	3.40761	44325.6
Riverside	2028	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	1003.75	328.5	0.74	20257.5
Riverside	2028	Construction and Mining - Misc - Crushing/Proc. Equipmen	Aggregate	Aggregate	Gasoline	47.8	0	0.356403	0
Riverside	2028	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	833.6	0	31.35954	0
Riverside	2028	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	3.83	0	1.548954	0
Riverside	2028	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	27.3	0	2.428986	0
Riverside	2028	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	1481.9	270.1	1.2456	34032.6
Riverside	2028	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	102.1	0	23.45186	0
Riverside	2028	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	7.21	0	0.96001	0
Riverside	2028	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	15035.95	438	335.0632	18640.55
Riverside	2028	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	12.2	0	2.378101	0
Riverside	2028	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	5548.2	0	183.7121	0
Riverside	2028	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	34.2	0	21.23308	0
Riverside	2028	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	6582.5	938.05	34.78144	57732.05
Riverside	2028	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	209.9	0	64.25438	0
Riverside	2028	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	6774.4	1328.6	3.26	108770
Riverside	2028	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	3642.7	1011.05	2.03904	68941.2
Riverside	2028	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	4.98	0	0.627054	0
Riverside	2028	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	157.32	0	2.217081	0
Riverside	2028	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1347.95	485.45	186.5456	17961.65

Project Construction GHG Emissions

Activity	Annual GHG Emissions ($MTCO_2e$)
	CO_2e
Year 1	33
Year 2	386
Total Emissions	**419**
Total Emissions Amortized Over 30 Years	**14**

Source: CalEEMod Output Sheets

Total Project GHG Emissions

Activity	Annual GHG Emissions ($MTCO_2e$)[1]
	CO_2e
Project Operation	
Mobile	509
Area	2
Energy	177
Water	12
Waste	96
Refrigeration	0
Total Project Gross Operation Emissions	796
Project Construction	
Amortized Construction Emissions	14
Project Construction and Operation	
Project Total Emissions	**810**
Existing Emissions	**349**
Net New Emissions	**460**
Significance Threshold	**3,000**
Threshold Exceeded?	**No**

Notes: 1. Numbers may vary due to rounding.

Source: CalEEMod Output Sheets

Fleet Mix

Land Use Subtype	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	Total
CalEEMod default	0.924704	48.18853	4.100928	24.77305	2.78405	0.730755	2.259754	14.63827	0.271332	1.119368	0.082574	0.065283	0.061403	100

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	Passenger
LDA	0.481885
LDT1	0.041009
LDT2	0.24773
MCY	0.022598
MDV	0.146383
Sum	0.939605
Trucks	
LHD1	0.02784
LHD2	0.007308
MHD	0.011194
HHD	0.009247
Sum	0.055589
	0.995194