

TECHNICAL MEMORANDUM

DATE: October 27, 2025
TO: Brandon Roth, Stratham Homes
FROM: Haseeb Qureshi and Alyssa Barnett, Urban Crossroads, Inc.
JOB NO: 13448-02 Energy MemoEnergy Analysis

SUBJECT: SUMNER PLACE ENERGY ANALYSIS

Urban Crossroads, Inc. is pleased to provide the following energy analysis for the Sumner Place (Project), which is generally located on the southeast corner of Sumner Avenue and Schleisman Road in the City of Eastvale.

BACKGROUND AND PROPOSED PROJECT

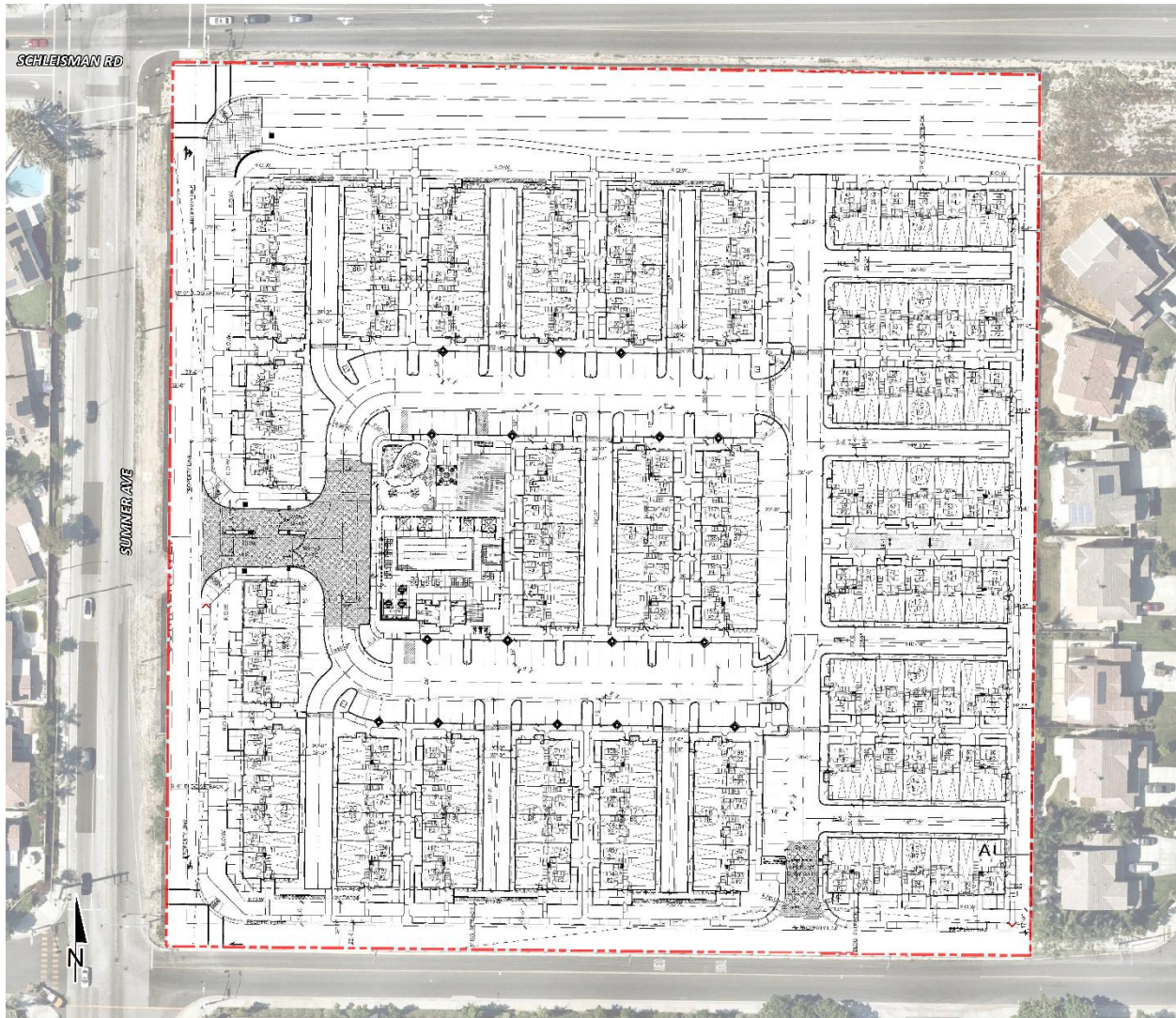
The Project was originally evaluated in the 2021 Air Quality and Greenhouse Gas Evaluation assuming 22 multi-family (low-rise, 2-floors) residential units, 194 multi-family (mid-rise, 3-floors) residential units, 2,500 square feet of commercial retail use, and 2,500 square feet of fast-food restaurant use without drive-through window use.

The Project is now proposing the development of 159 townhome units, which are less intense than the uses evaluated in the 2021 Air Quality and Greenhouse Gas Evaluation. Exhibit 1 identifies the current site plan.

SUMMARY OF FINDINGS

Results of the assessment indicate that the Project would result in a less than significant impact with respect to energy usage and no mitigation is required.

EXHIBIT 1: SITE PLAN



PROJECT ENERGY ANALYSIS

METHODOLOGY

Appendix F of the *State California Environmental Quality Act (CEQA) Guidelines* (1), provides some guidance for assessing these criteria, which implies that the means of achieving the goal of energy conservation includes decreasing overall per capita energy consumption; decreasing reliance on fossil fuels such as coal, natural gas, and oil; and increasing reliance on renewable energy sources. Additionally, the CEQA Guidelines state “[a] lead agency may consider the extent to which an energy source serving the project has already undergone environmental review that adequately analyzed and mitigated the effects of energy production.” Therefore, this evaluation considers the effects of statewide plans such as the State’s renewable portfolio standards, building code energy efficiency standards, and fuel efficiency standards.

Information from the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29 outputs for the *Sumner Place Air Quality and Greenhouse Gas Assessment* (2) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands.

STANDARDS OF SIGNIFICANCE

Appendix F of the State CEQA Guidelines (1), states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas, and oil; and
- Increasing reliance on renewable energy sources.

According to Appendix F, the analysis should include a description of energy conservation measures included as part of the project and should consider whether a project would result in inefficient, wasteful and unnecessary consumption of energy. In compliance with Appendix F and Appendix G of the State CEQA Guidelines (3), this report analyzes the Project’s anticipated energy use during construction and operations to determine if the Project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency

CalEEMod

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including South Coast Air Quality Management District (SCAQMD), released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources as well as energy usage (4). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project’s anticipated transportation and facility energy demands. Outputs from the annual model runs are provided in Appendix 1.

EMISSION FACTORS MODEL

Vehicle fuel efficiencies for light-duty-auto vehicles (LDA), light-duty-trucks (LDT1), and light-duty-trucks (LDT2) were estimated using information generated within the 2021 version of the EMFAC developed by the California Air Resources Board (CARB). EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources (5). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the Riverside South-Coast sub-area for the 2026 through 2028 calendar years. Data from EMFAC2021 is shown in Appendix 2.

CONSTRUCTION ENERGY DEMANDS

Project Construction Power Cost

For purposes of analysis, construction of Project is expected to commence in March 2026 and would last through March 2028. The construction schedule utilized in the analysis represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent¹. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (6).

TABLE 1: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition	03/02/2026	03/06/2026	5
Site Preparation	03/07/2026	03/09/2026	1
Grading	03/10/2026	06/01/2026	60
Trenching	06/02/2026	08/03/2026	45
Building Construction	08/04/2026	02/14/2028	400
Paving	02/15/2028	03/13/2028	20
Architectural Coating	09/28/2027	02/14/2028	100

The *2025 National Construction Estimator* identifies a typical power cost per 1,000 sf of construction per month of \$2.85, which was used to calculate the Project’s total construction power cost (7). Based on Table 2, the total power cost of on-site electricity usage during the construction of the Project is estimated to be approximately \$17,997.07.

¹ As shown in the CalEEMod User’s Guide Version 2022, Appendix G “Table G-11. Statewide Average Annual Offroad Equipment Emission Factors” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 2: CONSTRUCTION POWER COST

Land Use	Power Cost	Total Building Size (1,000 SF)	Construction Duration (months)	Total Project Construction Power Cost
Condo/Townhouse	\$2.85	261.639	24	\$17,896.11
Recreational Swimming Pool	\$2.85	1.476	24	\$100.96
Total Project Construction Cost				\$17,997.07

Project Construction Electricity Usage

The SCE's general service rate schedule was used to determine the Project's electrical usage. As of June 1, 2025, SCE's general service rate is \$0.17 per kilowatt hour (kWh) of electricity (8). As shown in Table 3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 107,393.88 kWh.

TABLE 3: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Total Project Construction Electricity Usage (kWh)
Condo/Townhouse	\$0.17	106,791.43
Recreational Swimming Pool	\$0.17	602.45
Total Project Construction Electricity Usage (kWh)		107,393.88

Construction Equipment Fuel Estimates

Equipment used for construction of the Project is shown in Table 4.

TABLE 4: CONSTRUCTION EQUIPMENT (1 OF 2)

Construction Activity	Equipment	Quantity	Hours
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Crawler Tractors	4	8
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	4	8
Grading	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	5	8
	Crawler Tractors	3	8
Trenching	Trenchers	2	8

TABLE 4: CONSTRUCTION EQUIPMENT (2 OF 2)

Construction Activity	Equipment	Quantity	Hours
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	6
	Pressure Washers	1	8

As presented in Table 5, Project construction activities would consume an estimated 87,046 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

Construction Worker Fuel Estimates

With respect to estimated VMT, the construction worker trips would generate an estimated 903,429 VMT. Based on CalEEMod methodology, it is assumed that 50% of all worker trips are from LDA, 25% are from LDT1, and 25% are from LDT2. Data regarding Project related construction worker trips were based on CalEEMod defaults for the land use type and Project location which are also utilized within the air quality assessment and CalEEMod outputs contained herein.

As shown on Table 6, it is estimated that 32,707 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project construction worker trips would represent a “single-event” gasoline fuel demand and would not require on- going or permanent commitment of fuel resources for this purpose.

TABLE 5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATE (1 OF 2)

Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Demolition	5	Concrete/Industrial Saws	33	1	8	0.73	193	52
		Excavators	36	3	8	0.38	328	89
		Crawler Tractors	87	4	8	0.43	1,197	324
Site Preparation	1	Rubber Tired Dozers	367	3	8	0.4	3,523	190
		Crawler Tractors	87	4	8	0.43	1,197	65
Grading	60	Excavators	36	1	8	0.38	109	355
		Graders	148	1	8	0.41	485	1,574
		Rubber Tired Dozers	367	1	8	0.4	1,174	3,809
		Scrapers	423	5	8	0.48	8,122	26,340
		Crawler Tractors	87	3	8	0.43	898	2,912
Building Construction	400	Cranes	367	1	8	0.29	851	18,410
		Forklifts	82	3	8	0.2	394	8,510
		Generator Sets	14	1	8	0.74	83	1,792
		Tractors/Loaders/Backhoes	84	3	8	0.37	746	16,128
		Welders	46	1	8	0.45	166	3,581
Paving	20	Pavers	81	2	8	0.42	544	588
		Paving Equipment	89	2	8	0.36	513	554
		Rollers	36	2	8	0.38	219	237
Architectural Coating	100	Air Compressors	37	1	6	0.48	107	576
		Pressure Washers	14	1	8	0.3	34	182
Trenching	45	Trenchers	40	2	8	0.5	320	778
Total Construction Fuel Demand (Gallons Fuel)								87,046

TABLE 6: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Year	Construction Activity	Duration (Days)	Worker Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption
2026	LDA						
	Demolition	5	10	18.5	925	31.71	29
	Site Preparation	1	9	18.5	167	31.71	5
	Grading	60	14	18.5	15,540	31.71	490
	Building Construction	108	58	18.5	115,884	31.71	3,655
	Trenching	45	3	18.5	2,498	31.71	79
	LDT1						
	Demolition	5	5	18.5	463	22.78	20
	Site Preparation	1	5	18.5	93	22.78	4
	Grading	60	7	18.5	7,770	22.78	341
	Building Construction	108	29	18.5	57,942	22.78	2,544
	Trenching	45	2	18.5	1,665	22.78	73
	LDT2						
	Demolition	5	5	18.5	463	23.62	20
	Site Preparation	1	5	18.5	93	23.62	4
	Grading	60	7	18.5	7,770	23.62	329
	Building Construction	108	29	18.5	57,942	23.62	2,453
	Trenching	45	2	18.5	1,665	23.62	70
2027	LDA						
	Building Construction	261	58	18.5	280,053	33.17	8,442
	LDT1						
2027	Building Construction	261	29	18.5	140,027	23.47	5,967
	LDT2						
2027	Building Construction	261	29	18.5	140,027	24.56	5,702
2028	LDA						
	Building Construction	31	58	18.5	33,263	34.82	955
	Paving	20	8	18.5	2,960	34.82	85
	LDT1						
	Building Construction	31	29	18.5	16,632	24.48	679
	Paving	20	4	18.5	1,480	24.48	60
	LDT2						
	Building Construction	31	29	18.5	16,632	25.90	642
	Paving	20	4	18.5	1,480	25.90	57
Total Construction Worker Fuel Consumption (Gallons)							32,707

Construction Vendor/Hauling Fuel Estimates

With respect to estimated VMT, the construction vendor trips would generate an estimated 133,352 VMT. It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT), 50% of vendor trips are from heavy-heavy duty trucks (HHDT), and 100% of hauling trips are from HHDTs. As shown on Table 7, it is estimated that 19,733 gallons of fuel will be consumed related to construction vendor/hauling trips (medium duty trucks) during full construction of the Project. Project construction vendor/hauling trips would represent a “single- event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 7: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES

Year	Construction Activity	Duration (Days)	Vendor/ Hauling Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption
2026	MHDT						
	Demolition	5	1	10.2	51	8.37	6
	Site Preparation	1	1	10.2	10	8.37	1
	Grading	60	1	10.2	612	8.37	73
	Building Construction	108	7	10.2	7,711	8.37	921
	Trenching	45	1	10.2	459	8.37	55
	HHDT (Vendor)						
	Demolition	5	1	10.2	51	6.35	8
	Site Preparation	1	1	10.2	10	6.35	2
	Grading	60	1	10.2	612	6.35	96
	Building Construction	108	7	10.2	7,711	6.35	1,213
	Trenching	45	1	10.2	459	6.35	72
	HHDT (Hauling)						
	Demolition	5	18	20.0	1,800	6.35	283
	Grading	60	60	20.0	71,760	6.35	11,293
2027	MHDT						
	Building Construction	261	7	10.2	18,635	8.48	2,197
2028	HHDT (Vendor)						
	Building Construction	261	7	10.2	18,635	6.49	2,870
	MHDT						
	Building Construction	31	7	10.2	2,213	8.67	255
	Paving	20	1	10.2	204	8.67	24
	HHDT (Vendor)						
	Building Construction	31	7	10.2	2,213	6.66	333
	Paving	20	1	10.2	204	6.66	31
Total Construction Vendor/Hauling Fuel Consumption (Gallons)							19,733

Construction Energy Demands Summary

Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Best Available Control Measures (BACMs) inform construction equipment operators of this requirement.

With regard to construction worker trips, the 2023 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements. As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

OPERATIONAL ENERGY DEMANDS

Transportation Energy Demands

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The VMT per vehicle class can be determined by the vehicle fleet mix and the total VMT. As with worker, vendor, and hauling trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2021 developed by CARB (5). As summarized in Table 8, the Project will result in 3,041,642 annual VMT and annual fuel consumption of 121,248 gallons of fuel.

TABLE 8: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION

Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual VMT	Estimated Annual Fuel Consumption
LDA	34.82	1,505,498	43,242
LDT1	24.48	109,814	4,485
LDT2	25.90	644,811	24,899
MDV	20.42	474,278	23,221
LHDT1	17.11	92,428	5,403
LHDT2	17.77	26,461	1,489
MHDT	8.67	45,903	5,293
HHDT	6.66	50,643	7,609
OBUS	8.29	1,774	214
UBUS	5.51	1,155	210
MCY	40.32	68,464	1,698
SBUS	6.30	4,038	641
MH	5.76	16,376	2,843
Total Annual Fuel Consumption (Gallons)		3,041,642	121,248

Facility Energy Demands

As shown in Table 9, the Project operational energy demands are estimated to result in 3,315,258 thousand-British thermal units per year (kBTU/year) of natural gas and 1,217,190 kWh/year of electricity, which would be supplied by SoCalGas and Southern California Edison, respectively.

TABLE 9: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Energy Type	Natural Gas (kBTU/year)	Electricity (kWh/year)
Condo/Townhouse	3,315,258	1,165,333
Parking Lot	0	51,857
Recreational Swimming Pool	0	0
Total Energy Usage	3,315,258	1,217,190

Project and Countywide Energy Consumption

The Project's electricity consumption shown in Table 10 summarizes the estimated energy consumption for the Project compared to the County of Riverside. It should be noted that these estimates represent gross consumption for the Project and do not include consumption generated by current on-site uses, which is a conservative analysis. As shown in Table 10, the Project's energy usage would constitute an approximate 0.01% increase over the County's typical annual electricity consumption, and an approximate 0.02% increase over the County's typical annual natural gas consumption (31) (32).

TABLE 10: PROJECT AND COUNTYWIDE ENERGY CONSUMPTION

Energy Type	Project Annual Energy Consumption	Riverside County Annual Energy Consumption	Percentage Increase Countywide
Electricity	1,217,190 kWh	17,780,573,270 kWh	0.01%
Natural Gas	3,315,258 kBTU	43,105,239,200 kBTU	0.01%

Source: California Energy Commission (CEC), 2022

Operational Energy Demands Summary

The Project proposes conventional residential uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The Project does not propose uses that are inherently energy intensive and the energy demands in total would be comparable to other residential land use projects of similar scale and configuration.

The Project will comply with the applicable Title 24 standards which will ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

The Project would not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California. As supported by the preceding analyses, Project operations would not result in the inefficient, wasteful, or unnecessary consumption of energy.

ENERGY IMPACT 1

Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Impact Analysis

A significant impact would occur if the proposed Project would result in the inefficient, wasteful, or unnecessary use of energy.

Construction

Based on CalEEMod estimations within the modeling output, construction-related vehicle trips would result in approximately 1,036,781 VMT and consume an estimated 52,441 gallons of diesel combined during construction. Additionally, on-site construction equipment would consume an estimated 87,046 gallons of diesel fuel. Limitations on idling of vehicles and equipment and requirements that equipment be properly maintained would result in fuel savings. California Code of Regulations, Title 13, Sections 2449 and 2485, limit idling from both on-road and off-road diesel-powered equipment and are enforced by the CARB. Additionally, given the cost of fuel, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction.

Due to the temporary nature of construction and the financial incentives for developers and contractors to use energy-consuming resources in an efficient manner, the construction phase of the proposed Project would not result in wasteful, inefficient, and unnecessary consumption of energy. Therefore, the construction-related impacts related to electricity and fuel consumption would be less than significant.

Operation

Electricity and Natural Gas

Operation of the proposed Project would consume energy as part of building operations and transportation activities including passenger vehicle traffic. Building operations would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, refrigeration, lighting, and electronics. Based on CalEEMod energy use estimations, operations for the Project would result in approximately 3,315,258 kBTU/year of natural gas demand and 1,217,190 kWh/year of electricity demand annually.

The proposed Project would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the California Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24 Lighting Power Density requirements define the maximum wattage of lighting that can be used in a building based on its square footage. Title 24 standards are widely regarded as the most advanced energy efficiency standards and would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation.

Fuel

Operational energy would also be consumed during vehicle trips associated with the proposed Project. Fuel consumption would be primarily related to vehicle use by residents associated with the Project. Based on CalEEMod energy use estimations, project-related vehicle trips would result in approximately 3,041,642 VMT and consume an estimated 121,248 gallons of gasoline and diesel combined, annually (see Appendix 1).

The existing infrastructure would provide future visitors and employees associated with the Project access to a mix of land uses in close proximity to the Project, thus further reducing fuel consumption demand. As such, operational-related transportation fuel consumption would not result in a significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources. Therefore, the operational impact related to vehicle fuel consumption would be less than significant.

ENERGY IMPACT 2

Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Impact Analysis

A significant impact would occur if the proposed Project would conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Construction

As discussed previously, the proposed project would result in energy consumption through the combustion of fossil fuels in construction vehicles, worker commute vehicles, and construction equipment, and the use of electricity for temporary buildings, lighting, and other sources. California Code of Regulations Title 13, Sections 2449 and 2485, limit idling from both on-road and off-road diesel-powered equipment and are enforced by the CARB. The proposed project would comply with these regulations. There are no policies at the local level applicable to energy conservation specific to the construction phase. Thus, it is anticipated that construction of the proposed project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, construction-related energy efficiency and renewable energy standards consistency impacts would be less than significant.

Operation

California's Renewable Portfolio Standard (RPS) establishes a goal of renewable energy for local providers to be 60 percent by 2030 and carbon-free by 2045. Similarly, the State is promoting renewable energy targets to meet the 2022 Scoping Plan greenhouse gas emissions reductions. As discussed above, the Project would result in approximately 3,315,258 kBTU/year of natural gas demand and 1,217,190 kWh/year of electricity demand annually.

The proposed Project would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the California Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24 Lighting Power Density requirements define the maximum wattage of lighting that can be used in a

building based on its square footage. Title 24 standards are widely regarded as the most advanced energy efficiency standards, would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation.

Compliance with the aforementioned mandatory measures would ensure that the proposed Project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, operational energy efficiency and renewable energy standards consistency impacts would be less than significant.

CONCLUSION

In summary, results of the assessment indicate that the Project would result in a less than significant impact with respect to air quality, greenhouse gases, and energy.

If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

REFERENCES

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APPENDIX 1:
CALEEMOD MODEL OUTPUTS

Sumner Place Detailed Report

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5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sumner Place
Construction Start Date	3/2/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.96000072375698, -117.57459188295604
County	Riverside-South Coast
City	Eastvale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5499
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Condo/Townhouse	159	Dwelling Unit	2.00	261,639	0.00	—	514	Includes 316 garage parking spaces
Parking Lot	151	Space	1.36	0.00	0.00	—	—	—
City Park	0.13	Acre	0.13	0.00	5,526	5,526	—	—
Recreational Swimming Pool	1.48	1000sqft	0.05	1,476	0.00	0.00	—	—
Other Asphalt Surfaces	174	1000sqft	4.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.2	18.9	54.9	49.7	0.14	2.33	5.10	7.43	2.15	1.48	3.63	—	17,093	17,093	0.61	0.77	9.74	17,348
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.2	18.9	55.1	49.3	0.14	2.33	5.90	7.67	2.15	2.74	4.37	—	17,064	17,064	0.59	0.77	0.25	17,310
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.54	4.33	13.1	14.9	0.03	0.53	1.35	1.89	0.49	0.37	0.86	—	4,258	4,258	0.14	0.17	1.87	4,314
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.83	0.79	2.39	2.72	0.01	0.10	0.25	0.34	0.09	0.07	0.16	—	705	705	0.02	0.03	0.31	714

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.06	5.86	54.9	49.7	0.14	2.33	5.10	7.43	2.15	1.48	3.63	—	17,093	17,093	0.61	0.77	9.74	17,348
2027	19.2	18.9	12.2	24.7	0.03	0.40	1.92	2.32	0.37	0.45	0.82	—	5,060	5,060	0.14	0.15	6.79	5,114
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.04	5.84	55.1	49.3	0.14	2.33	5.90	7.67	2.15	2.74	4.37	—	17,064	17,064	0.59	0.77	0.25	17,310
2027	19.2	18.9	12.3	22.5	0.03	0.40	1.92	2.32	0.37	0.45	0.82	—	4,910	4,910	0.15	0.15	0.18	4,957
2028	19.0	18.8	11.7	22.0	0.03	0.36	1.92	2.28	0.33	0.45	0.79	—	4,870	4,870	0.14	0.15	0.16	4,917
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.81	1.52	13.1	14.9	0.03	0.53	1.35	1.89	0.49	0.37	0.86	—	4,258	4,258	0.14	0.17	1.55	4,314
2027	4.54	4.33	8.15	14.9	0.02	0.27	1.20	1.47	0.25	0.28	0.53	—	3,276	3,276	0.10	0.10	1.87	3,309
2028	1.76	1.73	1.40	2.55	< 0.005	0.05	0.18	0.22	0.04	0.04	0.08	—	525	525	0.02	0.01	0.25	530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.33	0.28	2.39	2.72	0.01	0.10	0.25	0.34	0.09	0.07	0.16	—	705	705	0.02	0.03	0.26	714
2027	0.83	0.79	1.49	2.72	< 0.005	0.05	0.22	0.27	0.05	0.05	0.10	—	542	542	0.02	0.02	0.31	548
2028	0.32	0.32	0.26	0.47	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	87.0	87.0	< 0.005	< 0.005	0.04	87.8

2.4. Operations Emissions Compared Against Thresholds

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

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

Unmit.	11.5	10.9	6.59	39.1	0.10	0.34	6.61	6.95	0.33	1.68	2.01	80.5	13,133	13,214	8.66	0.39	23.1	13,569
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	9.88	6.72	25.9	0.09	0.33	6.61	6.94	0.33	1.68	2.01	80.5	12,657	12,738	8.67	0.40	2.23	13,076
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.2	9.87	4.02	29.2	0.07	0.13	5.83	5.96	0.13	1.48	1.61	80.5	8,856	8,936	8.58	0.36	9.93	9,268
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.87	1.80	0.73	5.32	0.01	0.02	1.06	1.09	0.02	0.27	0.29	13.3	1,466	1,480	1.42	0.06	1.64	1,534

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.11	3.82	3.03	28.6	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,501	7,501	0.30	0.34	21.4	7,630
Area	7.25	7.05	2.72	10.2	0.02	0.22	—	0.22	0.22	—	0.22	0.00	3,372	3,372	0.06	0.01	—	3,376
Energy	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	2,217	2,217	0.20	0.02	—	2,227
Water	—	—	—	—	—	—	—	—	—	—	—	12.6	43.3	55.9	1.29	0.03	—	97.4
Waste	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
Total	11.5	10.9	6.59	39.1	0.10	0.34	6.61	6.95	0.33	1.68	2.01	80.5	13,133	13,214	8.66	0.39	23.1	13,569
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.88	3.58	3.25	24.4	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,049	7,049	0.32	0.35	0.56	7,161
Area	6.41	6.26	2.64	1.12	0.02	0.21	—	0.21	0.21	—	0.21	0.00	3,348	3,348	0.06	0.01	—	3,351

Energy	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	2,217	2,217	0.20	0.02	—	2,227
Water	—	—	—	—	—	—	—	—	—	—	—	12.6	43.3	55.9	1.29	0.03	—	97.4
Waste	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
Total	10.4	9.88	6.72	25.9	0.09	0.33	6.61	6.94	0.33	1.68	2.01	80.5	12,657	12,738	8.67	0.40	2.23	13,076
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.43	3.16	2.95	22.5	0.06	0.05	5.83	5.87	0.04	1.48	1.52	—	6,350	6,350	0.29	0.31	8.25	6,458
Area	6.70	6.65	0.24	6.29	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	246	246	0.01	< 0.005	—	246
Energy	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	2,217	2,217	0.20	0.02	—	2,227
Water	—	—	—	—	—	—	—	—	—	—	—	12.6	43.3	55.9	1.29	0.03	—	97.4
Waste	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
Total	10.2	9.87	4.02	29.2	0.07	0.13	5.83	5.96	0.13	1.48	1.61	80.5	8,856	8,936	8.58	0.36	9.93	9,268
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.63	0.58	0.54	4.11	0.01	0.01	1.06	1.07	0.01	0.27	0.28	—	1,051	1,051	0.05	0.05	1.37	1,069
Area	1.22	1.21	0.04	1.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	40.7	40.7	< 0.005	< 0.005	—	40.8
Energy	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	367	367	0.03	< 0.005	—	369
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	7.17	9.25	0.21	0.01	—	16.1
Waste	—	—	—	—	—	—	—	—	—	—	—	11.3	0.00	11.3	1.12	0.00	—	39.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	1.87	1.80	0.73	5.32	0.01	0.02	1.06	1.09	0.02	0.27	0.29	13.3	1,466	1,480	1.42	0.06	1.64	1,534

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.55	13.5	14.7	0.02	0.77	—	0.77	0.71	—	0.71	—	2,064	2,064	0.08	0.02	—	2,071
Demolition	—	—	—	—	—	—	0.99	0.99	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.19	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.3	28.3	< 0.005	< 0.005	—	28.4
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.68	4.68	< 0.005	< 0.005	—	4.70
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	254	254	< 0.005	0.01	0.02	257
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.1	30.1	< 0.005	< 0.005	< 0.005	31.5
Hauling	0.05	0.02	1.40	0.33	0.01	0.02	0.33	0.35	0.02	0.09	0.12	—	1,219	1,219	0.02	0.20	0.06	1,278
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.52	3.52	< 0.005	< 0.005	0.01	3.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.01	17.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.58	0.58	< 0.005	< 0.005	< 0.005	0.59
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	< 0.005	2.90

3.3. Site Preparation (2026) - Unmitigated

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

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

Off-Road Equipm ent	4.56	3.83	34.6	31.0	0.05	1.77	—	1.77	1.62	—	1.62	—	5,532	5,532	0.22	0.04	—	5,551
Dust From Material Movement	—	—	—	—	—	—	5.66	5.66	—	2.69	2.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.51	2.51	< 0.005	< 0.005	—	2.52
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	225
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.1	30.1	< 0.005	< 0.005	< 0.005	31.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.75	5.67	50.2	46.6	0.12	2.25	—	2.25	2.07	—	2.07	—	12,604	12,604	0.51	0.10	—	12,647
Dust From Material Movement	—	—	—	—	—	—	3.64	3.64	—	1.08	1.08	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	6.75	5.67	50.2	46.6	0.12	2.25	—	2.25	2.07	—	2.07	—	12,604	12,604	0.51	0.10	—	12,647
Dust From Material Movement	—	—	—	—	—	—	3.64	3.64	—	1.08	1.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.11	0.93	8.26	7.67	0.02	0.37	—	0.37	0.34	—	0.34	—	2,072	2,072	0.08	0.02	—	2,079
Dust From Material Movement	—	—	—	—	—	—	0.60	0.60	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.20	0.17	1.51	1.40	< 0.005	0.07	—	0.07	0.06	—	0.06	—	343	343	0.01	< 0.005	—	344
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.11	1.97	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	379	379	0.02	0.01	1.28	385
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	0.16	63.2
Hauling	0.17	0.07	4.46	1.09	0.03	0.08	1.08	1.16	0.08	0.30	0.38	—	4,049	4,049	0.08	0.65	8.30	4,252
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.50	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	349	349	0.01	0.01	0.03	353
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	< 0.005	63.1
Hauling	0.17	0.06	4.64	1.11	0.03	0.08	1.08	1.16	0.08	0.30	0.38	—	4,051	4,051	0.08	0.65	0.22	4,247
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	58.1	58.1	< 0.005	< 0.005	0.09	58.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	0.01	10.4
Hauling	0.03	0.01	0.77	0.18	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	666	666	0.01	0.11	0.59	698
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.61	9.61	< 0.005	< 0.005	0.02	9.74
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.72
Hauling	0.01	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	110	110	< 0.005	0.02	0.10	116

3.7. Building Construction (2026) - Unmitigated

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

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

Off-Road	1.38	1.16	10.7	14.1	0.03	0.41	—	0.41	0.38	—	0.38	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	1.16	10.7	14.1	0.03	0.41	—	0.41	0.38	—	0.38	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.13	4.13	0.01	0.12	—	0.12	0.11	—	0.11	—	772	772	0.03	0.01	—	775
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.57	0.75	< 0.005	0.02	—	0.02	0.02	—	0.02	—	128	128	0.01	< 0.005	—	128
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.49	0.45	8.26	0.00	0.00	1.50	1.50	0.00	0.35	0.35	—	1,587	1,587	0.07	0.05	5.38	1,611
Vendor	0.02	0.01	0.42	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	391	391	0.01	0.06	1.07	411
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.46	0.50	6.27	0.00	0.00	1.50	1.50	0.00	0.35	0.35	—	1,460	1,460	0.02	0.06	0.14	1,477
Vendor	0.02	0.01	0.44	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	392	392	0.01	0.06	0.03	410
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.16	1.92	0.00	0.00	0.44	0.44	0.00	0.10	0.10	—	434	434	0.01	0.02	0.68	440
Vendor	0.01	< 0.005	0.13	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.13	120
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.35	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	71.8	71.8	< 0.005	< 0.005	0.11	72.8
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.02	19.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	7.27	10.0	0.02	0.26	—	0.26	0.24	—	0.24	—	1,878	1,878	0.08	0.02	—	1,885
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.33	1.83	< 0.005	0.05	—	0.05	0.04	—	0.04	—	311	311	0.01	< 0.005	—	312
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.46	0.40	7.65	0.00	0.00	1.50	1.50	0.00	0.35	0.35	—	1,558	1,558	0.02	0.05	4.84	1,580
Vendor	0.02	0.01	0.40	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.98	403
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.44	0.45	5.78	0.00	0.00	1.50	1.50	0.00	0.35	0.35	—	1,433	1,433	0.02	0.05	0.13	1,450
Vendor	0.02	0.01	0.42	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.03	402
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.35	0.31	0.36	4.33	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,036	1,036	0.01	0.04	1.49	1,050
Vendor	0.01	0.01	0.30	0.09	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	274	274	0.01	0.04	0.30	287
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.79	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	172	172	< 0.005	0.01	0.25	174
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	45.4	45.4	< 0.005	0.01	0.05	47.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.28	1.07	9.66	14.0	0.03	0.33	—	0.33	0.30	—	0.30	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.09	0.85	1.24	< 0.005	0.03	—	0.03	0.03	—	0.03	—	232	232	0.01	< 0.005	—	232
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.16	0.23	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	38.3	38.3	< 0.005	< 0.005	—	38.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.45	5.39	0.00	0.00	1.50	1.50	0.00	0.35	0.35	—	1,406	1,406	0.02	0.05	0.11	1,423
Vendor	0.02	0.01	0.40	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	376	376	0.01	0.06	0.02	393
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.50	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.16	127
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.1	33.1	< 0.005	0.01	0.03	34.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.8	20.8	< 0.005	< 0.005	0.03	21.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.48	5.48	< 0.005	< 0.005	0.01	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2028) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.70	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.36	0.54	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	183	183	< 0.005	0.01	0.01	185

Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.9	28.9	< 0.005	< 0.005	< 0.005	30.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.68	1.68	< 0.005	< 0.005	< 0.005	1.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.15	1.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	176	176	0.01	< 0.005	—	177
Architectural Coatings	17.1	17.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.18	0.15	1.15	1.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	176	176	0.01	< 0.005	—	177
Architectural Coatings	17.1	17.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.21	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.8	32.8	< 0.005	< 0.005	—	32.9
Architectural Coatings	3.17	3.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.43	5.43	< 0.005	< 0.005	—	5.45
Architectural Coatings	0.58	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.53	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	312	312	< 0.005	0.01	0.97	316
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.16	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	287	287	< 0.005	0.01	0.03	290
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	54.0	54.0	< 0.005	< 0.005	0.08	54.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.93	8.93	< 0.005	< 0.005	0.01	9.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.13	1.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	176	176	0.01	< 0.005	—	177

Architect ural	17.1	17.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.01	0.10	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Architect ural Coating s	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.57	2.57	< 0.005	< 0.005	—	2.58
Architect ural Coating s	0.27	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.08	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	281	281	< 0.005	0.01	0.02	285
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.1	25.1	< 0.005	< 0.005	0.03	25.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	0.01	4.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.36	2.49	2.86	< 0.005	0.10	—	0.10	0.09	—	0.09	—	415	415	0.02	< 0.005	—	416
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.31	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.2	51.2	< 0.005	< 0.005	—	51.3

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.47	8.47	< 0.005	< 0.005	—	8.50
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	69.0	69.0	< 0.005	< 0.005	0.23	70.0
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.2	60.2	< 0.005	0.01	0.16	63.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.92	7.92	< 0.005	< 0.005	0.01	8.02
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.42	7.42	< 0.005	< 0.005	0.01	7.78
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.31	1.31	< 0.005	< 0.005	< 0.005	1.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	4.11	3.82	3.03	28.6	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,501	7,501	0.30	0.34	21.4	7,630
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.11	3.82	3.03	28.6	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,501	7,501	0.30	0.34	21.4	7,630
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	3.88	3.58	3.25	24.4	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,049	7,049	0.32	0.35	0.56	7,161
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Recreational Swimming	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.88	3.58	3.25	24.4	0.07	0.05	6.61	6.66	0.05	1.68	1.73	—	7,049	7,049	0.32	0.35	0.56	7,161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.63	0.58	0.54	4.11	0.01	0.01	1.06	1.07	0.01	0.27	0.28	—	1,051	1,051	0.05	0.05	1.37	1,069
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.63	0.58	0.54	4.11	0.01	0.01	1.06	1.07	0.01	0.27	0.28	—	1,051	1,051	0.05	0.05	1.37	1,069

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	49.2	49.2	< 0.005	< 0.005	—	49.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,154	1,154	0.11	0.01	—	1,161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	49.2	49.2	< 0.005	< 0.005	—	49.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,154	1,154	0.11	0.01	—	1,161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	—	—	—	—	—	—	—	—	—	—	—	—	183	183	0.02	< 0.005	—	184

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	8.14	8.14	< 0.005	< 0.005	—	8.19
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	191	191	0.02	< 0.005	—	192

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	176
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	176

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.31	0.15	2.64	1.12	0.02	0.21	—	0.21	0.21	—	0.21	0.00	3,348	3,348	0.06	0.01	—	3,351
Consumer Products	5.63	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.47	0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.84	0.79	0.09	9.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.2	24.2	< 0.005	< 0.005	—	24.3
Total	7.25	7.05	2.72	10.2	0.02	0.22	—	0.22	0.22	—	0.22	0.00	3,372	3,372	0.06	0.01	—	3,376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.31	0.15	2.64	1.12	0.02	0.21	—	0.21	0.21	—	0.21	0.00	3,348	3,348	0.06	0.01	—	3,351
Consumer Products	5.63	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.47	0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	6.41	6.26	2.64	1.12	0.02	0.21	—	0.21	0.21	—	0.21	0.00	3,348	3,348	0.06	0.01	—	3,351

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	38.0	38.0	< 0.005	< 0.005	—	38.0
Consumer Products	1.03	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.10	0.01	1.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.75	2.75	< 0.005	< 0.005	—	2.76
Total	1.22	1.21	0.04	1.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	40.7	40.7	< 0.005	< 0.005	—	40.8

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	12.4	41.8	54.1	1.27	0.03	—	95.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.98	0.98	< 0.005	< 0.005	—	0.99

Recreati onal Swimmi ng	—	—	—	—	—	—	—	—	—	—	—	0.17	0.56	0.73	0.02	< 0.005	—	1.28
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.6	43.3	55.9	1.29	0.03	—	97.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	—	—	—	—	—	—	—	—	—	—	—	12.4	41.8	54.1	1.27	0.03	—	95.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.98	0.98	< 0.005	< 0.005	—	0.99
Recreati onal Swimmi ng Pool	—	—	—	—	—	—	—	—	—	—	—	0.17	0.56	0.73	0.02	< 0.005	—	1.28
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.6	43.3	55.9	1.29	0.03	—	97.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	—	—	—	—	—	—	—	—	—	—	—	2.05	6.91	8.96	0.21	0.01	—	15.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.03	0.09	0.12	< 0.005	< 0.005	—	0.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	7.17	9.25	0.21	0.01	—	16.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	63.4	0.00	63.4	6.34	0.00	—	222
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.02
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	4.53	0.00	4.53	0.45	0.00	—	15.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	63.4	0.00	63.4	6.34	0.00	—	222
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.02
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	4.53	0.00	4.53	0.45	0.00	—	15.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.75	0.00	0.75	0.08	0.00	—	2.63
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11.3	0.00	11.3	1.12	0.00	—	39.4

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.68	1.68
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	3/2/2026	3/6/2026	5.00	5.00	—
Site Preparation	Site Preparation	3/7/2026	3/9/2026	5.00	1.00	—
Grading	Grading	3/10/2026	6/1/2026	5.00	60.0	—
Building Construction	Building Construction	8/4/2026	2/14/2028	5.00	400	—
Paving	Paving	2/15/2028	3/13/2028	5.00	20.0	—
Architectural Coating	Architectural Coating	9/28/2027	2/14/2028	5.00	100	—
Trenching	Trenching	6/2/2026	8/3/2026	5.00	45.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	5.00	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Architectural Coating	Pressure Washers	Diesel	Average	1.00	8.00	14.0	0.30
Trenching	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	1.00	10.2	HHDT,MHDT
Demolition	Hauling	18.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT

Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	27.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	59.8	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	115	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	13.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	1.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	18.5	LDA,LDT1,LDT2
Trenching	Vendor	2.00	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	529,819	176,606	969	323	14,015

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	7,753	—
Site Preparation	—	—	3.50	0.00	—
Grading	28,700	—	450	0.00	—
Paving	0.00	0.00	0.00	0.00	5.36

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

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	1.36	100%
City Park	0.00	0%

Recreational Swimming Pool	0.00	0%
Other Asphalt Surfaces	4.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	346	0.03	< 0.005
2027	0.00	346	0.03	< 0.005
2028	0.00	346	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
Condo/Townhouse	1,072	723	614	349,209	9,337	6,301	5,346	3,041,642
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—

Wood Fireplaces	0
Gas Fireplaces	159
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
529818.975	176,606	969	323	14,015

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Condo/Townhouse	1,165,333	346	0.0330	0.0040	3,315,258
Parking Lot	51,857	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00

Recreational Swimming Pool	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	6,467,130	0.00
Parking Lot	0.00	0.00
City Park	0.00	194,708
Recreational Swimming Pool	87,295	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	118	—
Parking Lot	0.00	—
City Park	0.01	—
Recreational Swimming Pool	8.41	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	User Defined	150	0.04	1.00	0.00	1.00
Recreational Swimming Pool	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	User Defined	150	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.78	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	82.5
AQ-PM	94.0
AQ-DPM	41.1
Drinking Water	76.6
Lead Risk Housing	2.43
Pesticides	54.8
Toxic Releases	67.4
Traffic	6.33
Effect Indicators	—
CleanUp Sites	31.2
Groundwater	4.42

Haz Waste Facilities/Generators	5.03
Impaired Water Bodies	12.5
Solid Waste	2.52
Sensitive Population	—
Asthma	28.4
Cardio-vascular	87.2
Low Birth Weights	45.9
Socioeconomic Factor Indicators	—
Education	42.3
Housing	30.6
Linguistic	56.9
Poverty	7.06
Unemployment	29.4

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	88.83613499
Employed	74.38727063
Median HI	89.92685744
Education	—
Bachelor's or higher	68.29205697
High school enrollment	100
Preschool enrollment	58.88617991
Transportation	—
Auto Access	94.58488387
Active commuting	12.08777108

Social	—
2-parent households	84.49890928
Voting	44.93776466
Neighborhood	—
Alcohol availability	97.0101373
Park access	9.239060695
Retail density	26.3826511
Supermarket access	23.53394072
Tree canopy	11.22802515
Housing	—
Homeownership	86.28256127
Housing habitability	89.70871295
Low-inc homeowner severe housing cost burden	67.50930322
Low-inc renter severe housing cost burden	85.73078404
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	57.24368023
Arthritis	0.0
Asthma ER Admissions	71.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	55.6
Cognitively Disabled	82.5
Physically Disabled	77.4

Heart Attack ER Admissions	16.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	10.6
Elderly	79.3
English Speaking	53.8
Foreign-born	61.3
Outdoor Workers	70.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	23.6
Traffic Density	18.9
Traffic Access	23.0
Other Indices	—
Hardship	39.7
Other Decision Support	—
2016 Voting	55.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	41.0
Healthy Places Index Score for Project Location (b)	75.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	The Project will feature a total of 467 parking spaces, comprising 316 garage spaces, 139 street spaces, and 12 private driveway spaces. Upon review of the site plan, it appears that the garage spaces are included in the building square footage of the townhomes. The remaining 151 street and private driveway parking spaces will be evaluated separately under the "Parking Lot" land use classification
Construction: Construction Phases	Construction schedule based on prior analysis
Construction: Off-Road Equipment	Construction equipment based on prior analysis
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, Trenching, Building Construction, Paving.
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis

Operations: Hearths	Rule 445
Construction: Architectural Coatings	Rule 1113
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

APPENDIX 2:
EMFAC2021

Source: EMFAC2025 (v2.0.0) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/year for Hydrogen Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Gasoline	10.43149594	93030.16071	24.27702899	24277.02899	163763645.5	93030.16071	1040656425	6.35	HHDT
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Diesel	22702.28872	1007764061	159496.1898	159496189.8		1007764061			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Electricity	183.2928296	5404328.492	0	0		5404328.492			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Natural Gas	948.8341571	26987825.69	4243.178659	4243178.659		26987825.69			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Cell Electric Ve	13.81386556	407179.8609	0	0		407179.8609			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Gasoline	389854.4711	4333646927	162829.7103	162829710.3	166047833.5	4333646927	5265101687	31.71	LDA
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Diesel	1112.887605	10274319.79	264.4207484	264420.7484		10274319.79			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Electricity	47966.98256	753663648.5	0	0		753663648.5			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Plug-in Hybrid	11257.9141	165542291.3	2953.702377	2953702.377		165542291.3			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Cell Electric Ve	110.4412338	1974500.691	0	0		1974500.691			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Gasoline	37290.58523	390545149.3	17414.86898	17414868.98	17440723.59	390545149.3	397256886.1	22.78	LDT1
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Diesel	19.7836983	149251.8128	6.561392088	6561.392088		149251.8128			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Electricity	311.2297905	5510077.099	0	0		5510077.099			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Plug-in Hybrid	59.663223	1052407.952	19.29321124	19293.21124		1052407.952			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Gasoline	207002.8626	2597547816	114919.3945	114919394.5	115879644.7	2597547816	2737190020	23.62	LDT2
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Diesel	422.0077695	5305332.875	172.229357	172229.357		5305332.875			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Electricity	5425.48294	92400521.39	0	0		92400521.39			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2524.51552	41936349.89	788.0207788	788020.7788		41936349.89			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Gasoline	16903.06449	167046061.2	11964.61507	11964615.07	18382885.85	167046061.2	303132815.8	16.49	LHDT1
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Diesel	13575.81391	132608048.3	6418.27078	6418270.78		132608048.3			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Electricity	205.0192526	3478706.312	0	0		3478706.312			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Gasoline	3319.609425	38589407.33	2874.182464	2874182.464	9504772.793	38589407.33	161183053.6	16.96	LHDT2
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Diesel	9659.514454	119357368.7	6630.590329	6630590.329		119357368.7			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Electricity	181.6962255	3236277.617	0	0		3236277.617			
Riverside (SC)	2026	MCY	Aggregate	Aggregate	Gasoline	24520.19647	44460714.71	1108.806998	1108806.998	1108806.998	44460714.71	44460714.71	40.10	MCY
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Gasoline	162273.631	1912644400	105434.6779	105434677.9	108792529.1	1912644400	2072093514	19.05	MDV
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Diesel	5081.070272	69492872.8	2862.14634	2862146.34		69492872.8			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Electricity	3756.44959	64204040.63	0	0		64204040.63			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Plug-in Hybrid	1646.058565	25752200.04	495.7048035	495704.8035		25752200.04			
Riverside (SC)	2026	MH	Aggregate	Aggregate	Gasoline	5164.942831	13365791.06	2734.111389	2734111.389	3256133.986	13365791.06	18759536.84	5.76	MH
Riverside (SC)	2026	MH	Aggregate	Aggregate	Diesel	2092.111487	5393745.778	522.0225977	522022.5977		5393745.778			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Gasoline	1741.534588	20266658.1	3763.447846	3763447.846	21962423.59	20266658.1	183795996.6	8.37	MHDT
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Diesel	13450.33794	160405014.9	18049.78758	18049787.58		160405014.9			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Electricity	120.0350078	1784937.395	0	0		1784937.395			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Natural Gas	102.5149956	1306137.782	149.188169	149188.169		1306137.782			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Cell Electric Ve	2.715409356	33248.45464	0	0		33248.45464			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Gasoline	343.3017186	2776485.693	544.2993371	544299.3371	1005400.41	2776485.693	7844265.557	7.80	OBUS
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Diesel	231.6131502	3783254.793	457.6463309	457646.3309		3783254.793			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Electricity	7.790400312	156467.0914	0	0		156467.0914			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Natural Gas	70.49767269	1128057.887	3.454742111	3454.742111		1128057.887			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Cell Electric Ve	5.62184E-06	0.093326712	0	0		0.093326712			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Gasoline	365.8505763	3902837.523	440.2985755	440298.5755	1751516.334	3902837.523	10891343.03	6.22	SBUS
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Diesel	407.9839754	2708210.693	366.4875541	366487.5541		2708210.693			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Electricity	25.81807967	243696.1932	0	0		243696.1932			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Natural Gas	532.6010064	4036461.985	944.7302046	944730.2046		4036461.985			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Cell Electric Ve	0.03083832	136.6412062	0	0		136.6412062			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Electricity	0.918192465	31015.52231	0	0	1774900.173	31015.52231	9666423.773	5.45	UBUS
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Natural Gas	294.815953	9635408.25	1774.900173	1774900.173		9635408.25			

Source: EMFAC2025 (v2.0.0) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/year for Hydrogen Consumption

Region	CalYr	VehClass	MdYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Gasoline	10.43781039	86549.71592	22.60922355	22609.22355	164171337.9	86549.71592	1065976969	6.49	HHDT
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	22759.64107	1025608386	159581.0781	159581078.1		1025608386			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Electricity	306.3794661	9469348.716	0	0		9469348.716			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Natural Gas	978.785248	29583412.34	4567.650571	4567650.571		29583412.34			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Cell Electric Ve	36.30304971	1229272.421	0	0		1229272.421			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	379450.5983	4139000941	153579.3679	153579367.9	156722425	4139000941	5198995353	33.17	LDA
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Diesel	990.2403645	8822155.308	225.3514303	225351.4303		8822155.308			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Electricity	57349.29633	876792037.9	0	0		876792037.9			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Plug-in Hybric	11855.6252	170442213	2917.705656	2917705.656		170442213			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Cell Electric Ve	229.3198682	3938005.344	0	0		3938005.344			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	36646.92342	380350432	16750.73577	16750735.77	16775804.32	380350432	393647181.9	23.47	LDT1
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Diesel	13.11609452	97919.5191	4.184287949	4184.287949		97919.5191			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Electricity	680.9048233	12033580.81	0	0		12033580.81			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Plug-in Hybric	68.27244591	1165249.555	20.88426842	20884.26842		1165249.555			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	210661.7851	2602286667	113341.8702	113341870.2	114320480.7	2602286667	2807515780	24.56	LDT2
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Diesel	420.6587929	5154633.666	161.5621476	161562.1476		5154633.666			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Electricity	9299.370614	155770255.5	0	0		155770255.5			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Plug-in Hybric	2763.192249	44304224.12	817.0483554	817048.3554		44304224.12			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Gasoline	16703.5229	163330107.6	11518.47234	11518472.34	17646886.49	163330107.6	295987611.4	16.77	LHDT1
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Diesel	13280.02379	126998028.4	6128.41415	6128414.15		126998028.4			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Electricity	343.1739457	5659475.446	0	0		5659475.446			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Cell Electric Ve	11.49922337	202065.0909	0	0		202065.0909			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Gasoline	3394.762524	38851260.48	2855.425779	2855425.779	9548694.584	38851260.48	165423893.7	17.32	LHDT2
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Diesel	10029.52919	121148769.3	6693.268805	6693268.805		121148769.3			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Electricity	302.7746067	5229852.327	0	0		5229852.327			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Cell Electric Ve	10.45149127	194011.6434	0	0		194011.6434			
Riverside (SC)	2027	MCY	Aggregate	Aggregate	Gasoline	24668.31445	44088660.15	1096.386927	1096386.927	1096386.927	44088660.15	44088660.15	40.21	MCY
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Gasoline	161575.2471	1874240473	101859.3231	101859323.1	105287464.9	1874240473	2072797226	19.69	MDV
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Diesel	5389.35914	72243101.89	2932.922639	2932922.639		72243101.89			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Electricity	6001.335368	100240324.7	0	0		100240324.7			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Plug-in Hybric	1732.102001	26073326.4	495.2191807	495219.1807		26073326.4			
Riverside (SC)	2027	MH	Aggregate	Aggregate	Gasoline	5000.536393	12700492.6	2600.016179	2600016.179	3097418.445	12700492.6	17837826.79	5.76	MH
Riverside (SC)	2027	MH	Aggregate	Aggregate	Diesel	2033.934317	5137334.186	497.4022653	497402.2653		5137334.186			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Gasoline	1775.77129	20414442.89	3758.697789	3758697.789	22010001.13	20414442.89	186683526.7	8.48	MHDT
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	13682.2258	161314427.8	18102.85604	18102856.04		161314427.8			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Electricity	237.5576546	3430820.166	0	0		3430820.166			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Natural Gas	103.791077	1303382.217	148.4472962	148447.2962		1303382.217			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Cell Electric Ve	14.94676536	220453.5877	0	0		220453.5877			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Gasoline	328.1417561	2519943.52	490.0533869	490053.3869	946484.4481	2519943.52	7619194.15	8.05	OBUS
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Diesel	233.0424007	3770982.733	452.9565244	452956.5244		3770982.733			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Electricity	10.41286464	208008.1386	0	0		208008.1386			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Natural Gas	70.91645036	1115698.924	3.47453681	3474.53681		1115698.924			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Cell Electric Ve	0.223036642	4560.833701	0	0		4560.833701			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Gasoline	366.1416872	3865258.169	434.0188201	434018.8201	1724746.47	3865258.169	10783483.85	6.25	SBUS
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Diesel	399.9519345	2612459.634	353.1365234	353136.5234		2612459.634			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Electricity	31.47786782	287965.4564	0	0		287965.4564			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Natural Gas	541.1599356	4012969.697	937.5911268	937591.1268		4012969.697			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Cell Electric Ve	0.604677449	4830.890251	0	0		4830.890251			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Electricity	2.832578206	85282.96663	0	0	1779159.126	85282.96663	9740643.709	5.47	UBUS
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Natural Gas	294.9595393	9649331.026	1779.159126	1779159.126		9649331.026			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Cell Electric Ve	0.212709527	6029.716035	0	0		6029.716035			

Source: EMFAC2025 (v2.0.0) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for Combustion VMT and Electric VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, kWh/year for Energy Consumption, kg/year for Hydrogen Consumption

Region	CalYr	VehClass	MdYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Gasoline	10.46365727	80956.87198	21.14678866	21146.78866	163690818.3	80956.87198	1089534916	6.66	HHDT
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Diesel	22690.5369	1040021049	158911.5447	158911544.7		1040021049			
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Electricity	473.0846294	15394078.37	0	0		15394078.37			
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Natural Gas	986.7767831	31241616.15	4758.126765	4758126.765		31241616.15			
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Cell Electric Ve	76.30597513	2797215.53	0	0		2797215.53			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	368550.0174	3972743631	145419.0613	145419061.3	148537057.8	3972743631	5171398596	34.82	LDA
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Diesel	880.1265784	7598848.429	193.0146244	193014.6244		7598848.429			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Electricity	67104.60397	1005496596	0	0		1005496596			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Plug-in Hybric	12620.72097	179776362.5	2924.981943	2924981.943		179776362.5			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Cell Electric Ve	347.1569953	5783158.315	0	0		5783158.315			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Gasoline	35766.98047	368088688.2	16024.90069	16024900.69	16050450.59	368088688.2	392959155	24.48	LDT1
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Diesel	10.07089269	74884.0601	3.136972335	3136.972335		74884.0601			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Electricity	1338.937249	23512447.43	0	0		23512447.43			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Plug-in Hybric	77.0464559	1283135.336	22.41292804	22412.92804		1283135.336			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Gasoline	211676.1683	2576772091	110531.8716	110531871.6	111530393.2	2576772091	2888266580	25.90	LDT2
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Diesel	420.9002109	5058238.652	153.4367026	153436.7026		5058238.652			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Electricity	15630.06418	259581336.2	0	0		259581336.2			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Plug-in Hybric	3000.526137	46854914.9	845.0848461	845084.8461		46854914.9			
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Gasoline	16479.61641	160240049.3	11136.19325	11136193.25	17011624.35	160240049.3	290996845.4	17.11	LHDT1
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Diesel	12968.95619	122200203.7	5875.431104	5875431.104		122200203.7			
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Electricity	529.3372573	8556592.367	0	0		8556592.367			
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Cell Electric Ve	32.02385361	545727.106	0	0		545727.106			
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Gasoline	3457.808653	39103190.06	2840.037066	2840037.066	9581184.438	39103190.06	170237405.8	17.77	LHDT2
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Diesel	10349.81223	122754825.8	6741.147372	6741147.372		122754825.8			
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Electricity	465.5054666	7867410.427	0	0		7867410.427			
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Cell Electric Ve	28.54837438	511979.5132	0	0		511979.5132			
Riverside (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	24836.95527	44036601.83	1092.26419	1092264.19	1092264.19	44036601.83	44036601.83	40.32	MCY
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	160542.2546	1843723352	98639.17948	98639179.48	102149414.3	1843723352	2086326052	20.42	MDV
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Diesel	5685.741785	75171976.05	3014.191343	3014191.343		75171976.05			
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Electricity	8606.886978	140870329.7	0	0		140870329.7			
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Plug-in Hybric	1815.635951	26560393.78	496.0434465	496043.4465		26560393.78			
Riverside (SC)	2028	MH	Aggregate	Aggregate	Gasoline	4842.670448	12168998.43	2490.819829	2490819.829	2968260.684	12168998.43	17098368.11	5.76	MH
Riverside (SC)	2028	MH	Aggregate	Aggregate	Diesel	1975.378951	4929369.683	477.4408549	477440.8549		4929369.683			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Gasoline	1799.601736	20507120.81	3743.728362	3743728.362	21890505.03	20507120.81	189832434.4	8.67	MHDT
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Diesel	13849.93212	161076173.2	17999.64892	17999648.92		161076173.2			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Electricity	447.4849741	6369804.362	0	0		6369804.362			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Natural Gas	104.430439	1294414.032	147.1277397	147127.7397		1294414.032			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Cell Electric Ve	39.09107198	584921.9448	0	0		584921.9448			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Gasoline	312.2000602	2294829.284	444.2128317	444212.8317	898006.754	2294829.284	7446147.106	8.29	OBUS
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Diesel	234.1266027	3759622.715	450.3067115	450306.7115		3759622.715			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Electricity	13.98090941	280411.7572	0	0		280411.7572			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Natural Gas	71.18686138	1098686.652	3.487210895	3487.210895		1098686.652			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Cell Electric Ve	0.606704356	12596.69774	0	0		12596.69774			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Gasoline	363.9066559	3826273.48	427.3461225	427346.1225	1694229.219	3826273.48	10679481.45	6.30	SBUS
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Diesel	389.6495848	2507831.66	338.5710286	338571.0286		2507831.66			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Electricity	39.8596135	354546.5209	0	0		354546.5209			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Natural Gas	548.2108286	3978319.193	928.3120674	928312.0674		3978319.193			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Cell Electric Ve	1.530022786	12510.59937	0	0		12510.59937			
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Electricity	4.521963946	132721.2564	0	0	1781955.61	132721.2564	9814863.646	5.51	UBUS
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Natural Gas	295.3531255	9670841.752	1781.95561	1781955.61		9670841.752			
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Cell Electric Ve	0.400419053	11300.63712	0	0		11300.63712			