



*KPC EHS Consultants, LLC*

## Technical Memorandum

Kevin P. Carr, MS.

**Date:** December 29, 2023, *Revised* February 19, 2025

**Re:** Avenue M, Lancaster Industrial Development Project – Energy Technical Memorandum

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### Purpose

The purpose of this memorandum is to document the proposed Project's estimated energy use as it relates to the potential environmental impacts associated with the construction and operation environmental impacts associated with the construction and operation of the proposed industrial project on approximately 40.40 acres. The memorandum has been revised to include an updated project description.

### 1.0 Project Location & Description

- 1.1 Project Location:** The proposed project site is in the City of Lancaster, Los Angeles County, California on the north side of West Avenue M, west of Division Street.
- 1.2 Description:** The Applicant is proposing to two speculative buildings on two separate parcels, proposed development includes two industrial buildings. Building 1 consists of 12,000 SF of office area, 343,973 SF warehouse area, 46,000 square foot (SF) manufacturing area, 213 parking spaces with 43 being parking for EV/Clean air vehicles, and 74 trailer parking spaces on an approximately 20.82-acre vacant parcel. Building 2 consists of 12,000 SF of office area, 347,032 SF warehouse area, 46,000 square foot (SF) manufacturing area, 230 parking spaces with 46 being parking for EV/Clean air vehicles, and 74 trailer parking spaces on an approximately 19.59 - acre vacant parcel.

### 2.0 Energy Assessment

#### 2.1 Determination of Significance:

The criteria used to determine the significance related to potential Project related air quality and greenhouse gas emission impacts is based on the California Environmental Quality Act (CEQA) Environmental Checklist, Appendix G Thresholds:

##### 2.1.1 Energy Impacts:

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

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

## 2.2 Construction Energy Analysis:

Construction of the Project would require the use of fuel and electric powered equipment and vehicles for construction activities. The majority of activities would use fuel powered equipment and vehicles that would consume gasoline or diesel fuel. Heavy construction equipment (e.g., dozers, graders, backhoes, dump trucks) would be diesel powered, while smaller construction vehicles, such as pick-up trucks and personal vehicles used by workers would be gasoline powered. The majority of electricity use would be from power tools. The anticipated construction schedule using the California Emissions Estimator Model (CalEEMod) defaults assumes the Project would be built in approximately 13 months.<sup>1</sup> The consumption of energy would be temporary in nature and would not represent a significant demand on available supplies. There are no unusual characteristics that would necessitate the use of fuel or electricity that would be less energy efficient than at comparable construction sites in the region or State.

Starting in 2014, the California Air Resources Board (CARB) adopted the nation's first regulation aimed at cleaning up off-road construction equipment such as bulldozers, graders, and backhoes. These requirements ensure fleets gradually turnover the oldest and dirtiest equipment to newer, cleaner models and prevent fleets from adding older, dirtier equipment. As such, the equipment used for Project construction would conform to CARB regulations and California emissions standards as fuel efficiencies gradually rise. It should also be noted that there are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient, wasteful, or unnecessary consumption of fuel.

In addition, as required by state law<sup>2</sup>, idling times of construction vehicles is limited to no more than five minutes, thereby minimizing, or eliminating unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Equipment employed in construction of the Project would therefore not result in inefficient, wasteful, or unnecessary consumption of fuel.

Table 2.2-1 presents the estimated Project's construction equipment fuel demand calculations based on the CalEEMod default equipment and schedule. The Horsepower hours per day (HP hrs/day) was calculated by taking the number of equipment times the operating hours per day, times the horsepower, times the load factor. The HP hrs/day was then multiplied by the number of days for the phase and divided by 18.5 to estimate the total fuel demand. The 18.5 value is the estimated fuel consumption rate from the California Air Resources Board (CARB) The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D, Table D-21 Fuel Consumption Rate Factors, for engines of less than 750 HP.<sup>3</sup> As indicated in Table 2.2-1 the total construction equipment fuel demand is estimated to be 36,887 gallons of diesel fuel.

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<sup>1</sup> CalEEMod Datasheets, Appendix A.

<sup>2</sup> California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling.

<sup>3</sup> Carl Moyer Program Guidelines accessed: [https://ww2.arb.ca.gov/sites/default/files/2020-06/2017\\_cmpgpl.pdf](https://ww2.arb.ca.gov/sites/default/files/2020-06/2017_cmpgpl.pdf)

**Table 2.2-1 Construction Equipment Fuel Demand**

Construction Phase	Offroad Equipment Type	Number per Day	Hours per Day	Horse power	Load Factor	HP hrs/day	Number of Days	Total Fuel Demand (gal diesel fuel)
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	995	20	1,076
	Rubber Tired Dozers	3	8	367	0.40	3523	20	3,809
Grading	Graders	1	8	148	0.41	485	45	1,180
	Rubber Tired Dozers	1	8	367	0.40	1174	45	2,856
	Tractors/Loaders/Backhoes	2	8	84	0.37	497	45	1,209
	Excavators	2	8	36	0.36	207	45	504
	Scarpers	2	8	423	0.48	3249	45	7,903
Building Construction	Cranes	1	7	367	0.29	745	147	5,920
	Forklifts	3	8	82	0.20	394	147	3,131
	Tractors/Loaders/Backhoes	3	7	84	0.37	653	147	5,189
	Welders	1	8	46	0.45	166	147	1,319
	Generator Sets	1	8	14	0.20	22	147	175
Paving	Pavers	2	8	81	0.42	544	35	1,029
	Rollers	2	8	36	0.38	219	35	414
	Paving Equipment	2	8	89	0.36	513	35	971
Architectural Coating	Air Compressors	1	6	37	0.48	107	35	202
<b>Total Construction Equipment Fuel Demand</b>								<b>36,887</b>

Table 2.2-2 presents the estimated Project’s construction worker and vendor fuel demand calculations based on the CalEEMod defaults and schedule. The CalEEMod one way worker trips per day, times the number of miles per trip, times the number of days for the phase will equal the total estimated worker miles for the construction phase. The total miles are then divided by the average fuel use of 31.0 MPG which was calculated using CARB’s EMFAC2021 (v1.0.2) Emissions Inventory and included as Appendix B to equal the total fuel demand for each construction phase. As indicated in Table 2.2-2 the total construction worker and vendor trip fuel demand is estimated to be 38,416 gallons of fuel.

**Table 2.2-2 Construction Worker & Vendor Trip Fuel Demand**

Construction Phase	Trip Type	One-Way Trips per Day	Miles per Trip	Number of Days	Total Miles	Average Fuel Use (MPG)	Total Fuel Demand (gallons)
Site Preparation	Worker	17.5	18.5	20	6,475	31.0	209
Grading	Worker	20	18.5	45	16,650	31.0	537
Building Construction	Worker	337	18.5	147	916,472	31.0	29,564
	Vendor	132	10.2	147	197,921	31.0	6,385
Paving	Worker	15	18.5	35	9,713	31.0	313
Architectural Coating	Worker	67.4	18.5	35	43,642	31.0	1,408
<b>Total Construction Worker Trip Fuel Demand</b>							<b>38,416</b>

### 2.3 Operational Energy Analysis:

During operations the Project would generate demand for electricity, natural gas, as well as fuels (gasoline and diesel) for motor vehicle trips. Operational use of energy includes the heating, ventilation, air conditioning, lighting, water heating, operation of electrical systems and plug-in appliances within buildings and parking lot. These uses of energy are typical for urban development, and no operational activities or land uses would occur that would result in extraordinary energy consumption.

#### Operational Transportation Energy.

The operations-related vehicle trips fuel usage was calculated using the CalEEMod data Table 5.9.1 (Appendix A) for annual vehicle miles traveled, which determined that operation of the proposed Project would generate 5,288,747 vehicle miles traveled per year. The calculated total operational miles were then divided by the average rates of 31 miles per gallon for automobiles, which was calculated through use of the EMFAC2022 model (Appendix B) and based on the year 2024. Based on this information, the operation of automobiles related to the Project would consume 170,605 gallons per year.

#### Operational Electricity Use.

The operations-related electricity usage was calculated from the CalEEMod data (Appendix A) and determined operation of the Project would consume the following electricity:

##### Building #1

- Warehouses 1,609,918 kWh/year
- Office Spaces 213,843 kWh/year
- Manufacturing 441,266 kWh/year
- Parking Lot 98,564 kWh/year

#### Building #2

- Warehouses 1,624,236 kWh/year
- Office Spaces 213,843 kWh/year
- Manufacturing 441,266 kWh/year
- Parking Lot 79,988 kWh/year

#### Totals

- Warehouses 3,234,154 kWh/year
- Office Spaces 427,686 kWh/year
- Manufacturing 882,532 kWh/year
- Parking Lot 178,552 kWh/year

Based on the above, it is anticipated that the proposed Project would utilize 4,722,924 kWh per year of electricity.

#### Operational Natural Gas Use.

The operations-related natural gas usage was calculated by a CalEEMod model run that determined operation of the Project would consume unmitigated natural gas per each individual use shown in kilo British Thermal Units (kBTU) per year:

#### Building #1

- Warehouse 6,630,474 kBTU/year
- Office 304,158 kBTU/year
- Manufacturing 1,968,889 kBTU/year
- Parking Lot 0

#### Building #2

- Warehouse 6,689,440 kBTU/year
- Office 304,158 kBTU/year
- Manufacturing 1,968,889 kBTU/year
- Parking Lot 0

#### Totals

- Warehouse 13,319,914 kBTU/year
- Office 608,316 kBTU/year
- Manufacturing 3,937,778 kBTU/year
- Parking Lot 0

Based on the above, it is anticipated that the proposed project will use an unmitigated total of 17,66,008 kBTU per year of natural gas.

### **3.0 Conformity and Consistency:**

The proposed Project would be required to meet the CCR Title 24 energy efficiency standards in effect during permitting of the Project. Energy-saving and sustainable design features and operational programs would be incorporated into the Project as per CalGreen. Prior to the issuance of the building permit the Project's facility energy efficiencies would be documented as part of the City's development review process. The City as part of the Project review will assess the design components and energy conservation measures during the permitting process, which ensures that all requirements are met, and the Project will be in compliance with the City's General Plan energy efficiency requirements.

Additionally, regulatory measures, standards, and policies directed at reducing air pollutant emissions and GHG emissions would also act to promote energy conservation and reduce Project energy consumption such as the limits imposed by CCR Title 13, Section 2449(d)(3) on idling. Also, the Project would not conflict with or obstruct opportunities to use renewable energy, such as solar energy. Based on the preceding the proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

### **4.0 Conclusion**

Based on the assessment in Sections 2.0 and 3.0 there are less than significant impacts of the Proposed Project associated with Energy, and no mitigation would be required. As such, the project will have a less than significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during construction and operation.

Additionally, the Project would not conflict with or obstruct opportunities to use renewable energy, such as solar energy. Based on the preceding the proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.



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APPENDIX A  
CalEEMod Datasheet



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APPENDIX A  
CalEEMod Datasheet



# Avenue M Industrial Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
3. Construction Emissions Details
  - 3.1. Site Preparation (2025) - Unmitigated
  - 3.3. Grading (2025) - Unmitigated
  - 3.5. Building Construction (2025) - Unmitigated
  - 3.7. Paving (2025) - Unmitigated

3.9. Paving (2026) - Unmitigated

3.11. Architectural Coating (2026) - Unmitigated

#### 4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

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	Avenue M Industrial
Construction Start Date	1/7/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.50
Precipitation (days)	13.0
Location	34.647441194744644, -118.1315942495398
County	Los Angeles-Mojave Desert
City	Lancaster
Air District	Antelope Valley AQMD
Air Basin	Mojave Desert
TAZ	3664
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Unrefrigerated Warehouse-No Rail	337	1000sqft	7.74	337,000	50,402	0.00	—	—
General Office Building	12.0	1000sqft	0.28	12,000	0.00	0.00	—	—
Parking Lot	241	Space	2.17	0.00	14,179	0.00	—	—
Other Asphalt Surfaces	79.7	1000sqft	1.83	0.00	0.00	0.00	—	—
Unrefrigerated Warehouse-No Rail	355	1000sqft	8.15	355,000	53,318	0.00	—	—
General Office Building	12.0	1000sqft	0.28	12,000	0.00	0.00	—	—
Parking Lot	241	Space	2.17	0.00	14,179	0.00	—	—
Other Asphalt Surfaces	79.7	1000sqft	1.83	0.00	0.00	0.00	—	—
Manufacturing	46.0	1000sqft	1.06	46,000	0.00	0.00	—	—
Manufacturing	46.0	1000sqft	1.06	46,000	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.93	3.31	29.8	48.0	0.06	1.23	5.54	6.03	1.14	1.49	2.62	—	11,243	11,243	0.31	0.75	31.2	11,504



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.04	137	31.7	37.3	0.06	1.37	7.89	9.26	1.26	3.99	5.25	—	10,705	10,705	0.32	0.75	0.81	10,937
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.12	13.2	12.5	21.9	0.03	0.44	3.13	3.56	0.40	0.94	1.34	—	5,563	5,563	0.18	0.31	5.52	5,666
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	2.41	2.28	3.99	0.01	0.08	0.57	0.65	0.07	0.17	0.25	—	921	921	0.03	0.05	0.91	938
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	548,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	548,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	12.0	—	—	—	—	—	—	100,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No

## 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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.93	3.31	29.8	48.0	0.06	1.23	5.54	6.03	1.14	1.49	2.62	—	11,243	11,243	0.31	0.75	31.2	11,504
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.04	3.40	31.7	37.3	0.06	1.37	7.89	9.26	1.26	3.99	5.25	—	10,705	10,705	0.32	0.75	0.81	10,937
2026	0.99	137	7.20	10.9	0.01	0.32	0.88	0.90	0.29	0.21	0.34	—	1,700	1,700	0.07	0.03	0.09	1,707
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.12	1.86	12.5	21.9	0.03	0.44	3.13	3.56	0.40	0.94	1.34	—	5,563	5,563	0.18	0.31	5.52	5,666
2026	0.11	13.2	0.59	1.27	< 0.005	0.02	0.10	0.12	0.02	0.02	0.04	—	207	207	0.01	< 0.005	0.17	208
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.39	0.34	2.28	3.99	0.01	0.08	0.57	0.65	0.07	0.17	0.25	—	921	921	0.03	0.05	0.91	938
2026	0.02	2.41	0.11	0.23	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	34.2	34.2	< 0.005	< 0.005	0.03	34.5

## 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.	17.7	34.9	12.0	109	0.17	0.53	11.6	12.2	0.50	2.95	3.46	780	25,040	25,819	80.5	1.57	77.0	28,377
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.2	27.9	12.3	59.9	0.15	0.46	11.6	12.1	0.46	2.95	3.41	780	23,718	24,498	80.6	1.60	25.4	27,013
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	12.2	29.8	11.7	74.5	0.14	0.48	10.2	10.7	0.47	2.59	3.06	780	22,564	23,344	80.5	1.53	44.2	25,856
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.23	5.43	2.14	13.6	0.03	0.09	1.86	1.95	0.09	0.47	0.56	129	3,736	3,865	13.3	0.25	7.32	4,281
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	548,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	548,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	12.0	—	—	—	—	—	—	100,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No

## 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	10.9	10.2	6.88	69.7	0.13	0.10	11.6	11.7	0.09	2.95	3.05	—	13,670	13,670	0.65	0.63	53.0	13,926
Area	6.25	24.4	0.30	35.1	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	—	145
Energy	0.53	0.26	4.80	4.04	0.03	0.37	—	0.37	0.37	—	0.37	—	10,204	10,204	0.93	0.06	—	10,246

Water	—	—	—	—	—	—	—	—	—	—	—	356	1,022	1,378	36.6	0.88	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	424	0.00	424	42.4	0.00	—	1,484
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0
Total	17.7	34.9	12.0	109	0.17	0.53	11.6	12.2	0.50	2.95	3.46	780	25,040	25,819	80.5	1.57	77.0	28,377
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.67	9.02	7.48	55.8	0.12	0.10	11.6	11.7	0.09	2.95	3.05	—	12,493	12,493	0.69	0.66	1.37	12,707
Area	—	18.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.53	0.26	4.80	4.04	0.03	0.37	—	0.37	0.37	—	0.37	—	10,204	10,204	0.93	0.06	—	10,246
Water	—	—	—	—	—	—	—	—	—	—	—	356	1,022	1,378	36.6	0.88	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	424	0.00	424	42.4	0.00	—	1,484
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0
Total	10.2	27.9	12.3	59.9	0.15	0.46	11.6	12.1	0.46	2.95	3.41	780	23,718	24,498	80.6	1.60	25.4	27,013
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.60	8.02	6.75	53.1	0.11	0.09	10.2	10.3	0.08	2.59	2.67	—	11,267	11,267	0.62	0.59	20.2	11,478
Area	3.08	21.5	0.15	17.3	< 0.005	0.03	—	0.03	0.02	—	0.02	—	71.3	71.3	< 0.005	< 0.005	—	71.5
Energy	0.53	0.26	4.80	4.04	0.03	0.37	—	0.37	0.37	—	0.37	—	10,204	10,204	0.93	0.06	—	10,246
Water	—	—	—	—	—	—	—	—	—	—	—	356	1,022	1,378	36.6	0.88	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	424	0.00	424	42.4	0.00	—	1,484
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0
Total	12.2	29.8	11.7	74.5	0.14	0.48	10.2	10.7	0.47	2.59	3.06	780	22,564	23,344	80.5	1.53	44.2	25,856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.57	1.46	1.23	9.70	0.02	0.02	1.86	1.88	0.01	0.47	0.49	—	1,865	1,865	0.10	0.10	3.34	1,900
Area	0.56	3.92	0.03	3.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Energy	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,689	1,689	0.15	0.01	—	1,696
Water	—	—	—	—	—	—	—	—	—	—	—	58.9	169	228	6.05	0.15	—	423
Waste	—	—	—	—	—	—	—	—	—	—	—	70.2	0.00	70.2	7.02	0.00	—	246

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.97	3.97
Total	2.23	5.43	2.14	13.6	0.03	0.09	1.86	1.95	0.09	0.47	0.56	129	3,736	3,865	13.3	0.25	7.32	4,281

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement:	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.18	1.73	1.65	< 0.005	0.07	—	0.07	0.07	—	0.07	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement:	—	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.17	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	225	225	0.01	0.01	0.03	228
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.02	12.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.10	2.10	< 0.005	< 0.005	< 0.005	2.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement:	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement:	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.66	3.49	0.01	0.15	—	0.15	0.14	—	0.14	—	814	814	0.03	0.01	—	816
Dust From Material Movement:	—	—	—	—	—	—	0.44	0.44	—	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 Equipment	0.09	0.07	0.67	0.64	< 0.005	0.03	—	0.03	0.03	—	0.03	—	135	135	0.01	< 0.005	—	135
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	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	0.12	0.11	0.11	1.98	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	289	289	0.01	0.01	1.17	294
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	0.11	0.10	0.12	1.34	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	257	257	0.01	0.01	0.03	260
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	0.02	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.6	32.6	< 0.005	< 0.005	0.06	33.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.40	5.40	< 0.005	< 0.005	0.01	5.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



### 3.5. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	4.21	5.25	0.01	0.17	—	0.17	0.16	—	0.16	—	966	966	0.04	0.01	—	969
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.10	0.08	0.77	0.96	< 0.005	0.03	—	0.03	0.03	—	0.03	—	160	160	0.01	< 0.005	—	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	2.10	1.94	1.92	33.4	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	4,873	4,873	0.20	0.17	19.6	4,948
Vendor	0.15	0.14	4.05	1.55	0.03	0.06	1.13	1.19	0.06	0.31	0.37	—	3,972	3,972	0.01	0.56	11.5	4,151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.92	1.75	2.08	22.6	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	4,331	4,331	0.22	0.17	0.51	4,387
Vendor	0.14	0.13	4.29	1.60	0.03	0.06	1.13	1.19	0.06	0.31	0.37	—	3,977	3,977	0.01	0.56	0.30	4,145
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	0.78	0.71	0.89	10.2	0.00	0.00	1.76	1.76	0.00	0.41	0.41	—	1,794	1,794	0.09	0.07	3.42	1,820
Vendor	0.06	0.05	1.72	0.64	0.01	0.02	0.45	0.48	0.02	0.13	0.15	—	1,601	1,601	< 0.005	0.23	2.01	1,670
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	0.14	0.13	0.16	1.86	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	297	297	0.01	0.01	0.57	301
Vendor	0.01	0.01	0.31	0.12	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	265	265	< 0.005	0.04	0.33	277
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Paving (2025) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.23	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.5
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.84	7.84	< 0.005	< 0.005	—	7.86
Paving	—	< 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	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	193	193	0.01	0.01	0.02	195
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	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.21	6.21	< 0.005	< 0.005	0.01	6.30
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.04
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

### 3.9. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.46	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	97.6	97.6	< 0.005	< 0.005	—	97.9
Paving	—	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	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.2	16.2	< 0.005	< 0.005	—	16.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.94	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	0.01	0.01	0.02	192
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	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.7
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.11
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

### 3.11. Architectural Coating (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	137	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	—	12.8
Architectural Coatings	—	13.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	—	2.13
Architectural Coatings	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.37	0.31	0.38	4.23	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	849	849	0.04	0.03	0.09	860
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.46	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	83.8	83.8	< 0.005	< 0.005	0.15	85.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	6.46	6.08	4.09	41.4	0.08	0.06	6.91	6.97	0.05	1.75	1.81	—	8,114	8,114	0.38	0.37	31.5	8,266
General Office Building	1.25	1.18	0.79	8.04	0.02	0.01	1.34	1.35	0.01	0.34	0.35	—	1,575	1,575	0.07	0.07	6.11	1,605
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
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
Manufacturing	3.17	2.98	2.00	20.3	0.04	0.03	3.39	3.42	0.03	0.86	0.89	—	3,980	3,980	0.19	0.18	15.4	4,055
Total	10.9	10.2	6.88	69.7	0.13	0.10	11.6	11.7	0.09	2.95	3.05	—	13,670	13,670	0.65	0.63	53.0	13,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.74	5.36	4.44	33.1	0.07	0.06	6.91	6.97	0.05	1.75	1.81	—	7,415	7,415	0.41	0.39	0.82	7,542
General Office Building	1.11	1.04	0.86	6.43	0.01	0.01	1.34	1.35	0.01	0.34	0.35	—	1,440	1,440	0.08	0.08	0.16	1,464
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
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
Manufacturing	2.81	2.63	2.18	16.3	0.04	0.03	3.39	3.42	0.03	0.86	0.89	—	3,638	3,638	0.20	0.19	0.40	3,700
Total	9.67	9.02	7.48	55.8	0.12	0.10	11.6	11.7	0.09	2.95	3.05	—	12,493	12,493	0.69	0.66	1.37	12,707
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Unrefrigerated Warehouse-No Rail	1.06	0.98	0.83	6.52	0.01	0.01	1.25	1.26	0.01	0.32	0.33	—	1,254	1,254	0.07	0.07	2.25	1,278
General Office Building	0.16	0.14	0.12	0.96	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.05	—	184	184	0.01	0.01	0.33	188
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
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
Manufacturing	0.36	0.33	0.28	2.22	< 0.005	< 0.005	0.43	0.43	< 0.005	0.11	0.11	—	427	427	0.02	0.02	0.76	435
<b>Total</b>	<b>1.57</b>	<b>1.46</b>	<b>1.23</b>	<b>9.70</b>	<b>0.02</b>	<b>0.02</b>	<b>1.86</b>	<b>1.88</b>	<b>0.01</b>	<b>0.47</b>	<b>0.49</b>	<b>—</b>	<b>1,865</b>	<b>1,865</b>	<b>0.10</b>	<b>0.10</b>	<b>3.34</b>	<b>1,900</b>

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,072	3,072	0.29	0.04	—	3,090
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	406	406	0.04	< 0.005	—	408
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	157	157	0.01	< 0.005	—	158

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	837	837	0.08	0.01	—	842
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,472	4,472	0.43	0.05	—	4,498
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,072	3,072	0.29	0.04	—	3,090
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	406	406	0.04	< 0.005	—	408
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	157	157	0.01	< 0.005	—	158
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	837	837	0.08	0.01	—	842
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,472	4,472	0.43	0.05	—	4,498
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	509	509	0.05	0.01	—	512
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	67.2	67.2	0.01	< 0.005	—	67.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	26.0	26.0	< 0.005	< 0.005	—	26.1

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	139	139	0.01	< 0.005	—	139
Total	—	—	—	—	—	—	—	—	—	—	—	—	740	740	0.07	0.01	—	745

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.39	0.20	3.58	3.01	0.02	0.27	—	0.27	0.27	—	0.27	—	4,275	4,275	0.38	0.01	—	4,287
General Office Building	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	195	195	0.02	< 0.005	—	195
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
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
Manufacturing	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,266
Total	0.53	0.26	4.80	4.04	0.03	0.37	—	0.37	0.37	—	0.37	—	5,732	5,732	0.51	0.01	—	5,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.39	0.20	3.58	3.01	0.02	0.27	—	0.27	0.27	—	0.27	—	4,275	4,275	0.38	0.01	—	4,287
General Office Building	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	195	195	0.02	< 0.005	—	195
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
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
Manufacturing	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,266
Total	0.53	0.26	4.80	4.04	0.03	0.37	—	0.37	0.37	—	0.37	—	5,732	5,732	0.51	0.01	—	5,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.07	0.04	0.65	0.55	< 0.005	0.05	—	0.05	0.05	—	0.05	—	708	708	0.06	< 0.005	—	710
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.3	32.3	< 0.005	< 0.005	—	32.4
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
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
Manufacturing	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	209	209	0.02	< 0.005	—	210
Total	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	949	949	0.08	< 0.005	—	952

### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	17.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.25	5.77	0.30	35.1	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	—	145
Total	6.25	24.4	0.30	35.1	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	—	145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	17.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	18.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	0.56	0.52	0.03	3.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Total	0.56	3.92	0.03	3.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8

#### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	307	881	1,187	31.5	0.76	—	2,201
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.17	23.3	31.5	0.84	0.02	—	58.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	1.85	1.85	< 0.005	< 0.005	—	1.86
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	40.8	116	157	4.19	0.10	—	292
Total	—	—	—	—	—	—	—	—	—	—	—	356	1,022	1,378	36.6	0.88	—	2,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	307	881	1,187	31.5	0.76	—	2,201
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.17	23.3	31.5	0.84	0.02	—	58.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	1.85	1.85	< 0.005	< 0.005	—	1.86
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	40.8	116	157	4.19	0.10	—	292
Total	—	—	—	—	—	—	—	—	—	—	—	356	1,022	1,378	36.6	0.88	—	2,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	50.8	146	197	5.22	0.13	—	364
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.35	3.86	5.21	0.14	< 0.005	—	9.68
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.31	0.31	< 0.005	< 0.005	—	0.31
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	6.75	19.2	26.0	0.69	0.02	—	48.3
Total	—	—	—	—	—	—	—	—	—	—	—	58.9	169	228	6.05	0.15	—	423

## 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	351	0.00	351	35.0	0.00	—	1,227
General Office Building	—	—	—	—	—	—	—	—	—	—	—	12.0	0.00	12.0	1.20	0.00	—	42.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	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
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	61.5	0.00	61.5	6.14	0.00	—	215
Total	—	—	—	—	—	—	—	—	—	—	—	424	0.00	424	42.4	0.00	—	1,484
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	351	0.00	351	35.0	0.00	—	1,227
General Office Building	—	—	—	—	—	—	—	—	—	—	—	12.0	0.00	12.0	1.20	0.00	—	42.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	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
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	61.5	0.00	61.5	6.14	0.00	—	215
Total	—	—	—	—	—	—	—	—	—	—	—	424	0.00	424	42.4	0.00	—	1,484
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.0	0.00	58.0	5.80	0.00	—	203
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.99	0.00	1.99	0.20	0.00	—	6.97
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	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
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	10.2	0.00	10.2	1.02	0.00	—	35.6
Total	—	—	—	—	—	—	—	—	—	—	—	70.2	0.00	70.2	7.02	0.00	—	246

### 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.9	23.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.9	23.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.96	3.96
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.97	3.97

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

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

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

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

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

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

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

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

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

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

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/19/2025	3/19/2025	5.00	20.0	—
Grading	Grading	3/20/2025	5/22/2025	5.00	45.0	—

Building Construction	Building Construction	5/23/2025	12/15/2025	5.00	147	—
Paving	Paving	12/16/2025	2/2/2026	5.00	35.0	—
Architectural Coating	Architectural Coating	2/3/2026	3/23/2026	5.00	35.0	—

## 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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	337	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	132	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	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	67.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT



Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

## 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	0.00	0.00	1,212,000	404,000	20,902

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	30.0	0.00	—
Grading	—	—	135	0.00	—
Paving	0.00	0.00	0.00	0.00	8.00

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	2.17	100%
Other Asphalt Surfaces	1.83	100%
Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	2.17	100%
Other Asphalt Surfaces	1.83	100%
Manufacturing	0.00	0%
Manufacturing	0.00	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	349	0.03	< 0.005
2026	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
Unrefrigerated Warehouse-No Rail	586	586	586	214,029	4,750	4,750	4,750	1,733,657
General Office Building	117	26.5	8.40	32,293	947	215	68.0	261,578

Parking Lot	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
Unrefrigerated Warehouse-No Rail	618	618	618	225,461	5,003	5,003	5,003	1,826,256
General Office Building	117	26.5	8.40	32,293	947	215	68.0	261,578
Parking Lot	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
Manufacturing	181	295	234	74,739	1,464	2,392	1,897	605,398
Manufacturing	181	295	234	74,739	1,464	2,392	1,897	605,398

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 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)
0	0.00	1,212,000	404,000	20,902

### 5.10.3. Landscape Equipment

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,577,282	346	0.0330	0.0040	6,496,061
General Office Building	213,843	346	0.0330	0.0040	304,158
Parking Lot	82,766	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,661,529	346	0.0330	0.0040	6,843,032
General Office Building	213,843	346	0.0330	0.0040	304,158
Parking Lot	82,766	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Manufacturing	441,266	346	0.0330	0.0040	1,968,889
Manufacturing	441,266	346	0.0330	0.0040	1,968,889

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	77,931,250	815,721
General Office Building	2,132,805	0.00
Parking Lot	0.00	229,477
Other Asphalt Surfaces	0.00	0.00
Unrefrigerated Warehouse-No Rail	82,093,750	862,914
General Office Building	2,132,805	0.00

Parking Lot	0.00	229,477
Other Asphalt Surfaces	0.00	0.00
Manufacturing	10,637,500	0.00
Manufacturing	10,637,500	0.00

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	317	—
General Office Building	11.2	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
Unrefrigerated Warehouse-No Rail	334	—
General Office Building	11.2	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
Manufacturing	57.0	—
Manufacturing	57.0	—

### 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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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## 5.16. 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	34.8	annual days of extreme heat
Extreme Precipitation	1.35	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	1.27	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A



Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	88.7
AQ-PM	8.86
AQ-DPM	31.1
Drinking Water	53.1
Lead Risk Housing	43.0
Pesticides	0.00
Toxic Releases	97.0
Traffic	54.4
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	0.00

Solid Waste	81.6
Sensitive Population	—
Asthma	98.7
Cardio-vascular	87.7
Low Birth Weights	74.0
Socioeconomic Factor Indicators	—
Education	33.5
Housing	24.9
Linguistic	26.4
Poverty	81.5
Unemployment	47.0

## 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	10.68907994
Employed	7.955857821
Median HI	12.98601309
Education	—
Bachelor's or higher	27.70435006
High school enrollment	4.144745284
Preschool enrollment	69.84473245
Transportation	—
Auto Access	11.9209547
Active commuting	57.48748877
Social	—

2-parent households	0.61593738
Voting	46.63159245
Neighborhood	—
Alcohol availability	62.53047607
Park access	2.194276915
Retail density	56.08879764
Supermarket access	77.85191839
Tree canopy	53.25291929
Housing	—
Homeownership	1.642499679
Housing habitability	15.56525087
Low-inc homeowner severe housing cost burden	21.82728089
Low-inc renter severe housing cost burden	76.74836392
Uncrowded housing	51.79006801
Health Outcomes	—
Insured adults	27.22956499
Arthritis	93.9
Asthma ER Admissions	1.3
High Blood Pressure	92.9
Cancer (excluding skin)	91.6
Asthma	16.4
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	79.4
Life Expectancy at Birth	3.3
Cognitively Disabled	46.5
Physically Disabled	69.8

Heart Attack ER Admissions	1.6
Mental Health Not Good	23.2
Chronic Kidney Disease	90.3
Obesity	31.1
Pedestrian Injuries	19.6
Physical Health Not Good	47.6
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	11.9
Current Smoker	16.1
No Leisure Time for Physical Activity	49.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.4
Elderly	95.7
English Speaking	65.0
Foreign-born	22.2
Outdoor Workers	94.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	64.0
Traffic Density	60.4
Traffic Access	23.0
Other Indices	—
Hardship	55.1
Other Decision Support	—
2016 Voting	14.5

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	5.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Vacant site no demolition phase. Project proponent estimated project start in 1st quarter of 2025 with an approximately 13 month construction schedule. Building Construction phase reduced from default values to achieve 13 month schedule all other phases maintaining default schedule

**APPENDIX – B**  
**Emfac and Fuel Demand Spreadsheet**

EMFAC2021-EI-2007Class-LosAngeles(MD)-2024-Annual-2023-12-18

Source: EMFAC2021 (v1.0.2) Emissions Inventory											
Region Type: Sub-Area											
Region: Los Angeles (MD)											
Calendar Year: 2024											
Season: Annual											
Vehicle Classification: EMFAC2007 Categories											
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption											
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Total VMT	Total Fuel	Miles Per Gallon
Los Angeles (MD)	2024	HHDT	Aggregate	Aggregate	Gasoline	0.032085868	17.47848572	0.003412297	249120.0968	39080.13735	6.374598245
Los Angeles (MD)	2024	HHDT	Aggregate	Aggregate	Diesel	1430.542858605990	247940.0301622700	38.96745993			
Los Angeles (MD)	2024	HHDT	Aggregate	Aggregate	Electricity	4.140120695	583.0402717	0			
Los Angeles (MD)	2024	HHDT	Aggregate	Aggregate	Natural Gas	7.138055354	579.5478471	0.109265215			
Los Angeles (MD)	2024	LDA	Aggregate	Aggregate	Gasoline	76762.27094462780	3949407.542145470	133.0492037	4195497.903	135172.5339	31.03809465
Los Angeles (MD)	2024	LDA	Aggregate	Aggregate	Diesel	290.1711953	13308.035110277200	0.297184524			
Los Angeles (MD)	2024	LDA	Aggregate	Aggregate	Electricity	2322.395161	124266.3193879640	0			
Los Angeles (MD)	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	1867.600616	108516.00658779700	1.826145744			
Los Angeles (MD)	2024	LDT1	Aggregate	Aggregate	Gasoline	6423.848955446830	279226.1266303940	11.33059451	280052.342	11339.67084	24.69669059
Los Angeles (MD)	2024	LDT1	Aggregate	Aggregate	Diesel	3.917566383	83.49262944	0.003308028			
Los Angeles (MD)	2024	LDT1	Aggregate	Aggregate	Electricity	7.053498852	358.1220819	0			
Los Angeles (MD)	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	6.071900757	384.6008482	0.005768299			
Los Angeles (MD)	2024	LDT2	Aggregate	Aggregate	Gasoline	24688.62589417010	1247524.6818796100	51.76052481	1267254.869	52004.67316	24.35404887
Los Angeles (MD)	2024	LDT2	Aggregate	Aggregate	Diesel	67.34472491	3784.205415655420	0.108628874			
Los Angeles (MD)	2024	LDT2	Aggregate	Aggregate	Electricity	133.657363	5359.67907982604	0			
Los Angeles (MD)	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	172.027735	10586.302583202500	0.165519473			
Los Angeles (MD)	2024	LHDT1	Aggregate	Aggregate	Gasoline	2610.293657129760	99000.43644229590	7.489030457	189318.8348451310	11689.97026	16.19498003
Los Angeles (MD)	2024	LHDT1	Aggregate	Aggregate	Diesel	2313.838197159750	89777.21974138270	4.200939802			
Los Angeles (MD)	2024	LHDT1	Aggregate	Aggregate	Electricity	6.56063809	541.1786615	0			
Los Angeles (MD)	2024	LHDT2	Aggregate	Aggregate	Gasoline	347.4204171	13454.236726359800	1.106489454	54283.136159928300	3408.070959	15.92782005
Los Angeles (MD)	2024	LHDT2	Aggregate	Aggregate	Diesel	1022.068511	40696.1832784758	2.301581205			
Los Angeles (MD)	2024	LHDT2	Aggregate	Aggregate	Electricity	1.698098295	132.7161551	0			
Los Angeles (MD)	2024	MCV	Aggregate	Aggregate	Gasoline	3991.966337	23471.225723691700	0.563250972	23471.225723691700	583.2509722	41.67099016
Los Angeles (MD)	2024	MDV	Aggregate	Aggregate	Gasoline	20760.81677720120	963723.3256963910	49.62399477	992910.6695284880	50398.14727	19.70133275
Los Angeles (MD)	2024	MDV	Aggregate	Aggregate	Diesel	337.0807724	16287.632721965800	0.659178077			
Los Angeles (MD)	2024	MDV	Aggregate	Aggregate	Electricity	146.5459136	5868.21632846075	0			
Los Angeles (MD)	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	118.2959097	7031.49478167051	0.114974423			
Los Angeles (MD)	2024	MH	Aggregate	Aggregate	Gasoline	855.8079044	7728.305430621960	1.557512842	10370.7314239554000	1812.286421	5.722457171
Los Angeles (MD)	2024	MH	Aggregate	Aggregate	Diesel	290.1685566	2642.425993	0.254773579			
Los Angeles (MD)	2024	MHDT	Aggregate	Aggregate	Gasoline	151.3994632	15593.173182371100	2.914622580	101703.6792078000	12071.15408	8.425348444
Los Angeles (MD)	2024	MHDT	Aggregate	Aggregate	Diesel	1658.116471	85311.72111925860	9.103962242			
Los Angeles (MD)	2024	MHDT	Aggregate	Aggregate	Electricity	4.41255181	318.416885319342	0			
Los Angeles (MD)	2024	MHDT	Aggregate	Aggregate	Natural Gas	9.115109598	480.3680209	0.052569251			
Los Angeles (MD)	2024	OBUS	Aggregate	Aggregate	Gasoline	51.71121691	3997.018430152640	0.780996876	12632.8681418643000	1823.127057	6.929230792
Los Angeles (MD)	2024	OBUS	Aggregate	Aggregate	Diesel	43.67445244	3453.744045	0.494600791			
Los Angeles (MD)	2024	OBUS	Aggregate	Aggregate	Electricity	0.100730445	17.14248402	0			
Los Angeles (MD)	2024	SBUS	Aggregate	Aggregate	Gasoline	51.92998089	5164.963182324430	0.547529389	14081.6976548779000	1792.073446	7.857768156
Los Angeles (MD)	2024	SBUS	Aggregate	Aggregate	Diesel	366.1891716	8200.01158285472	1.080859167			
Los Angeles (MD)	2024	SBUS	Aggregate	Aggregate	Electricity	1.099559974	30.12740604	0			
Los Angeles (MD)	2024	SBUS	Aggregate	Aggregate	Natural Gas	27.98144975	686.5954837	0.16368489			
Los Angeles (MD)	2024	UBUS	Aggregate	Aggregate	Diesel	29.27119024	5007.086649257260	0.764723765	12254.097613541500	2370.115229	5.170253946
Los Angeles (MD)	2024	UBUS	Aggregate	Aggregate	Electricity	32.29924441	2425.276922	0			
Los Angeles (MD)	2024	UBUS	Aggregate	Aggregate	Natural Gas	33.52052086	4821.734042646310	1.605391464			