Harvest Landing Specific Plan

ENERGY ANALYSIS

CITY OF PERRIS

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TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**
APPENDICES ..... **II**
LIST OF EXHIBITS ..... **II**
LIST OF TABLES ..... **II**
LIST OF ABBREVIATED TERMS ..... **IV**
EXECUTIVE SUMMARY **1**
ES.1 Summary of Findings 1
ES.2 Project Requirements 1
ES.3 Mitigation Measures 2
1 INTRODUCTION **8**
1.1 Site Location 8
1.2 Project Description 8
2 EXISTING CONDITIONS **14**
2.1 Overview 14
2.2 Electricity 17
2.3 Natural Gas 18
2.4 Transportation Energy Resources 21
3 REGULATORY BACKGROUND **24**
3.1 Federal Regulations 24
3.2 California Regulations 24
4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES **30**
4.1 Evaluation Criteria 30
4.2 Methodology 30
4.3 Construction Energy Demands 31
4.4 Operational Energy Demands 53
4.5 Summary 65
5 CONCLUSIONS **70**
6 REFERENCES **75**
7 CERTIFICATIONS **78**

APPENDICES

APPENDIX 4.1: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – OFF-SITE
APPENDIX 4.2: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – PHASE 1
APPENDIX 4.3: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – PHASE 2
APPENDIX 4.4: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 1 OPTION A
APPENDIX 4.5: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION A WITH OVERLAY
APPENDIX 4.6: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION A WITHOUT OVERLAY
APPENDIX 4.7: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PROJECT BUILDOUT (PHASE 1) OPTION A
APPENDIX 4.8: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 1 OPTION B
APPENDIX 4.9: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION B WITH OVERLAY
APPENDIX 4.10: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION B WITHOUT OVERLAY
APPENDIX 4.11: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PROJECT BUILDOUT (PHASE 1) OPTION B
APPENDIX 4.12: EMFAC2021

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 11
EXHIBIT 1-B: SITE PLAN 12

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 1
TABLE 1-1: PROJECT SQUARE FOOTAGE ASSUMPTIONS 9
TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2023) 16
TABLE 2-2: SCE 2023 POWER CONTENT MIX 18
TABLE 4-1: CONSTRUCTION DURATION 31
TABLE 4-2: CONSTRUCTION POWER COST 32
TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE 33
TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS 34
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 3) 37
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 3) 38
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (3 OF 3) 39
TABLE 4-6: CONSTRUCTION TRIPS AND VMT 41
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA) 43
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1) 44
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2) 46
TABLE 4-8: VENDOR FUEL CONSUMPTION ESTIMATES (MHDT) 49
TABLE 4-8: VENDOR FUEL CONSUMPTION ESTIMATES (HHDT) 50

TABLE 4-8: HAULING FUEL CONSUMPTION ESTIMATES (HHDT).....51
TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITH OVERLAY SCENARIO.....53
TABLE 4-10: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITHOUT OVERLAY SCENARIO.....55
TABLE 4-11: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITH OVERLAY SCENARIO.....56
TABLE 4-12: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITHOUT OVERLAY SCENARIO.....58
TABLE 4-13: ON-SITE CARGO HANDING EQUIPMENT FUEL CONSUMPTION – SCENARIO A AND SCENARIO B.....59
TABLE 4-14: STATIONARY SOURCE EQUIPMENT FUEL CONSUMPTION ESTIMATES – WITH OVERLAY SCENARIO.....60
TABLE 4-15: STATIONARY SOURCE EQUIPMENT FUEL CONSUMPTION ESTIMATES – WITHOUT OVERLAY SCENARIO.....61
TABLE 4-16: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITH OVERLAY SCENARIO.....61
TABLE 4-17: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITHOUT OVERLAY SCENARIO.....62
TABLE 4-18: PROJECT ANNUAL OPERATIONAL BUILDING ENERGY DEMAND SUMMARY – WITH OVERLAY SCENARIO WITH MITIGATION.....63
TABLE 4-19: PROJECT ANNUAL OPERATIONAL ENERGY BUILDING DEMAND SUMMARY – WITHOUT OVERLAY SCENARIO WITH MITIGATION.....64

LIST OF ABBREVIATED TERMS

%	Percent
(1)	Reference
AQIA	Harvest Landing Specific Plan Air Quality Impact Analysis
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of Perris
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EPA	Environmental Protection Agency
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GWh	Gigawatt Hour
HHD	Heavy-Heavy Duty Trucks
hp-hr-gal	Horsepower Hours Per Gallon
IEPR	Integrated Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Thousand-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHD1/LHD2	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHD	Medium-Heavy Duty Trucks
MMcfd	Million Cubic Feet Per Day
mpg	Miles Per Gallon

MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Harvest Landing Specific Plan
PV	Photovoltaic
SCAB	South Coast Air Basin
SCE	Southern California Edison
SDAB	San Diego Air Basin
sf	Square Feet
SoCalGas	Southern California Gas
TEA-21	Transportation Equity Act for the 21st Century
U.S.	United States
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Harvest Landing Specific Plan Energy Analysis* are summarized below based on the significance criteria in Section 5 of this report consistent with Appendix G of the *CEQA Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
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?	5.0	*Less Than Significant*	*n/a*
Energy Impact #2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	5.0	*Less Than Significant*	*n/a*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the federal and state agencies that regulate energy use and consumption through various means and programs. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of energy usage include:

- Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)
- The Transportation Equity Act for the 21st Century (TEA-21)
- Integrated Energy Policy Report (IEPR)
- State of California Energy Plan
- California Code Title 24, Part 6, Energy Efficiency Standards
- California Code Title 24, Part 11, California Green Building Standards Code (CALGreen)
- AB 1493 Pavley Regulations and Fuel Efficiency Standards
- California's Renewable Portfolio Standard (RPS)
- Clean Energy and Pollution Reduction Act of 2015 (SB 350)

Consistency with the above regulations is discussed in detail in Section 6 of this report.

ES.3 MITIGATION MEASURES

Because the proposed Project does not result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation nor does it conflict with or obstruct a state or local plan for renewable energy or energy efficiency, impacts would be less than significant, and no mitigation is required.

The following measures were identified in the *Harvest Landing Specific Plan Air Quality Impact Analysis* (*AQIA*) report (2) and the *Harvest Landing Specific Plan Greenhouse Gas Analysis* (*GHGA*) report (3). With implementation of mitigation measure MM GHG-4 appliances were assumed to be energy star rated and water fixtures were assumed to be efficient. However, for the remaining mitigation measures it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod), and therefore, to provide a conservative disclosure of Project energy usage, no reductions in energy are assumed to occur even with implementation of these measures. Notwithstanding the foregoing, it is likely that all of the below measures will decrease Project energy usage.

MITIGATION MEASURE MM AQ-8

Idling Regulations. The Project plans and specifications shall include signs at loading dock facilities that include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for trucks drivers to restrict idling to no more than 5 minutes once the vehicle is stopped, the transmission is set to "neutral" or "park", and the parking brake is engaged pursuant to Title 13 of the California Code of Regulations, Section 2485; and 3) telephone numbers of the building facilities manager, SCAQMD and CARB to report violations. Signs shall be installed prior to receipt of an occupancy permit.

MITIGATION MEASURE MM AQ-9

Electric Vehicle Charging Stations and Carpool Parking. The Project plans and specifications for the industrial buildings shall include electric vehicle charging stations and a minimum of 5% carpool parking spaces at each building for employees and the public to use.

MITIGATION MEASURE MM AQ-10

Electric Interior Vehicles. The Project plans and specifications for all of the industrial buildings shall include infrastructure to support use of electric-powered forklifts and/or other interior vehicles. The requirement that all on-site yard hostlers, yard equipment, forklifts, and pallet jacks shall be zero-emissions equipment, or equivalent language, shall be incorporated in all Project facility lease documents. Prior to issuance of a Certificate of Occupancy, facility owners or tenants shall provide documentation to the City of Perris Planning Division verifying that signed lease documents incorporate the requirement that all on-site yard trucks/hostlers shall be zero-emissions equipment.

MITIGATION MEASURE MM AQ-11

Transportation Management. The Project plans and specifications for the industrial buildings shall require that a Transportation Management Association (TMA) or similar mechanism shall be established by the Project to encourage and coordinate carpooling. The TMA shall advertise its services to the building occupants. The TMA shall offer transit incentives to employees and shall provide shuttle service to and from public transit, should a minimum of 5 employees request and use such service from a transit stop at the same drop-off and/or pickup time. The TMA shall distribute public transportation information to its employees. The TMA shall provide electronic message board space for coordination rides.

MITIGATION MEASURE MM AQ-12

The Project Applicant/Developer/Tenant shall require that all facility-owned and operated fleet equipment with a gross vehicle weight rating greater than 14,000 pounds accessing the site meet or exceed 2014 model-year emissions equivalent engine standards as currently defined in California Code of Regulations Title 13, Division 3, Chapter 1, Article 4.5, Section 2025. Facility operators which own vehicles subject to Section 2025 shall maintain records on-site demonstrating compliance with this requirement and shall make records available for inspection by the local jurisdiction, air district, and state upon request.

MITIGATION MEASURE MM AQ-13

The Project plan and specifications shall include that the Project Applicant/Developer shall construct electric truck charging infrastructure within truck parking areas consisting of infrastructure (i.e., conduit) to support future installation of charging stations when such trucks are commercially available, as reasonably determined by the City of Perris Planning Division. Conduit shall be provided proportional to parking spaces at a ratio of conduit for one charging station for every 10 truck parking spaces for all buildings developed within the MBU designation. Additionally, the Project Applicant/Developer shall construct electric light- duty truck charging infrastructure consisting of infrastructure (i.e., conduit) proportional, i.e., conduit for one charging station for every five light-duty truck parking spaces at the Project for all buildings developed within the MBU designation.

MITIGATION MEASURE MM AQ-14

Prior to the issuance of certificate of occupancy, the City Planning Manager, or designee, shall ensure all Project lease agreements require facility operators to train managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.

MITIGATION MEASURE MM AQ-15

Prior to the issuance of certificate of occupancy, the City Planning Manager, or designee, shall ensure all Project lease agreements require operators to establish and promote a rideshare program that discourages single-occupancy vehicle trips and provides financial incentives for alternate modes of transportation, including carpooling, public transit, and biking.

MITIGATION MEASURE MM AQ-16

Prior to the issuance of certificate of occupancy, the City Planning Manager, or designee, shall ensure all Project lease agreements require that all landscape equipment used to maintain the landscaping within the Project site shall be electric, and that Project plans support use of electrical landscaping equipment.

MITIGATION MEASURE MM AQ-17

Prior to certificate of occupancy, the Project Applicant shall post signs at every truck exit driveway providing directional information to the truck route.

MITIGATION MEASURE MM AQ-18

Prior to the issuance of certificate of occupancy, the City Planning Manager, or designee, shall ensure leasing agreements for each industrial building require that every tenant train its staff in charge of keeping vehicle records in diesel technologies and compliance with CARB regulations, by attending CARB- approved courses. Also, if the tenant/facility operator owns its own fleet of vehicles, subject to 13 California Code of Regulations section 2025, require such tenants/facility operators to maintain records on-site demonstrating compliance and make records available for inspection by the local jurisdiction, air district, and state upon request.

MITIGATION MEASURE MM AQ-19

Prior to the issuance of certificate of occupancy, the City Planning Manager, or designee, shall ensure leasing agreements for each industrial building require that Project Applicant/Developer/Owner provide tenants with information on incentive programs, such as the Carl Moyer Program and Voucher Incentive Program, to upgrade their fleets, prior to issuance of each certificate of occupancy.

GREENHOUSE GAS MITIGATION MEASURES

The following mitigation measures are recommended to further reduce GHG emissions.

MITIGATION MEASURE MM GHG-1

The Project plans and specifications shall require that prior to receipt of occupancy permits, separate recycling bins shall be provided within each commercial/industrial building and provide large external recycling collection bins at central locations in the commercial and industrial land uses for collection truck pickup. Provide a commercial recycling/composting program that provides 50 percent diversion of waste for the commercial land uses. Provide an industrial recycling program that provides 60 percent diversion of waste for the industrial land uses.

MITIGATION MEASURE MM GHG-2

The Project landscape plans and specifications shall require that drought tolerant low-water landscaping and trees be installed throughout the Project site and use recycled (purple pipe) irrigation water with drip irrigation and weather based smart irrigation controllers.

MITIGATION MEASURE MM GHG-3

The Project plans and specifications shall require that the Project shall implement a Water Conservation Strategy and demonstrate a minimum 20 percent reduction in indoor and outdoor water usage when compared to baseline water demand (total expected water demand without implementation of the Water Conservation Strategy). Prior to the issuance of building permits for the Project, the Project applicant shall provide building plans that could include the following water conservation measures:

- Install low-water use appliances and fixtures
- Restrict the use of water for cleaning outdoor surfaces and prohibit systems that apply water to non-vegetated surfaces
- Implement water-sensitive urban design practices in new construction
- Install rainwater collection systems

MITIGATION MEASURE MM GHG-4

The Project plans and specifications shall require that all development within the MBU areas, all buildings shall achieve certification of compliance or demonstrate equivalency with LEED Silver building standards. Prior to the issuance of building permits, the Project Applicant or successor in interest shall provide documentation to the City of Perris demonstrating that each development is designed to achieve energy efficient buildings equivalent to LEED Silver building standards with the following design criteria options:

- Building envelops insulation of conditioned space within all commercial and industrial buildings shall be R15 or greater for walls and R30 or greater for attics/roofs.
- Windows of commercial and industrial buildings shall have an insulation factor of 0.28 or less U-factor and 0.22 or less SHGC.
- All roofing material for commercial buildings shall be CRRC Rated 0.15 aged solar reflectance or greater and 0.75 thermal emittance.
- All heating/cooling ducting within the commercial and industrial buildings shall be insulated with R6 or greater insulation.
- All heating and cooling equipment shall be ERR 14/78 percent AFUE, or 7.7 HSPF levels of efficiency or greater.
- All water heaters in the commercial and industrial buildings shall be high efficiency electric water heaters with a minimum 0 .72 Energy Factor or greater.
- Lighting within the commercial and industrial buildings shall be high efficiency LED lighting with a minimum of 40 lumens/watt for 15 watt or less fixtures, 50 lumens/watt for 15–40-watt fixtures, and 60 lumens/watt for fixtures greater than 40 watts.

- All appliances within the commercial and industrial land uses shall be energy star rated appliances.
- All water fixtures shall be water efficient (toilets/urinals [1.5 GPM or less], showerheads [2.0 GPM or less], and faucets [1.28 GMM or less]).

MITIGATION MEASURE MM GHG-5

The Project Applicant/Developer shall install all necessary infrastructure (i.e., wiring, reinforced roofs) to allow solar photovoltaic systems on the project site to be installed in the future, with a specified electrical generation capacity in order to meet California Green Building Code Standards. The entire roof of the office section of each industrial building shall be designed to support solar installations, generating enough energy to meet 100% of the office's energy needs.

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Harvest Landing Specific Plan Project (Project). The purpose of this report is to ensure that energy implication is considered by the City of Perris (Lead Agency), as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

1.1 SITE LOCATION

The Project site includes approximately 358.28 acres and is generally bounded by I-215 to the west, Perris Boulevard to the east, Nuevo Road to the south, and Placentia Avenue to the north within the City of Perris, as shown on Exhibit 1-A. The Project site includes the current Harvest Landing Specific Plan (Specific Plan) area and parcels proposed to be annexed into the Specific Plan.

1.2 PROJECT DESCRIPTION

The Harvest Landing Specific Plan ("Specific Plan") currently covers 341.1 acres for residential, business, commercial, and open space uses. The proposed amendment will annex three parcels and add an overlay to a neighboring parcel, increasing the total Specific Plan area to 358.28 acres. It also revises the land use plan, replacing residential uses with business and commercial designations. The project will be developed in two phases. Phase 1 covers 235.79 acres (inclusive of water quality and roadway improvements), while Phase 2 covers 111.83-acres with a 10.66-acres Overlay[1] area, which lacks specific plans at this time. The maximum development density for Phase 2 is assessed programmatically in the Draft EIR, with future entitlements required for its development. A conceptual site plan is shown on Exhibit 1-B.

The proposed Project would include a total buildout of approximately 5,735,535 square feet of Multiple Business uses and 428,507 square feet of Commercial uses. The characteristics of each proposed industrial and commercial land uses for Phase 1, Phase 2 and Project Buildout are shown in Table 1-1. [2]

[1] It should be noted that for purposes of analysis and conservative scenario, the 10.66-acre Overlay area of the Project was analyzed as a with and without scenario, as it is unknown at this time whether the Overlay area would be built out.

[2] The Phase 2 buildout square footage of 4,007,955 SF was based on the gross acreage of parcels within the Phase 2 area prior to roadway dedications. After roadway dedications, the maximum allowable development within Phase 2 would actually be 4,001,748 SF. However, for purposes of providing a conservative analysis, a buildout of 4,007,955 SF was assumed.

TABLE 1-1: PROJECT SQUARE FOOTAGE ASSUMPTIONS

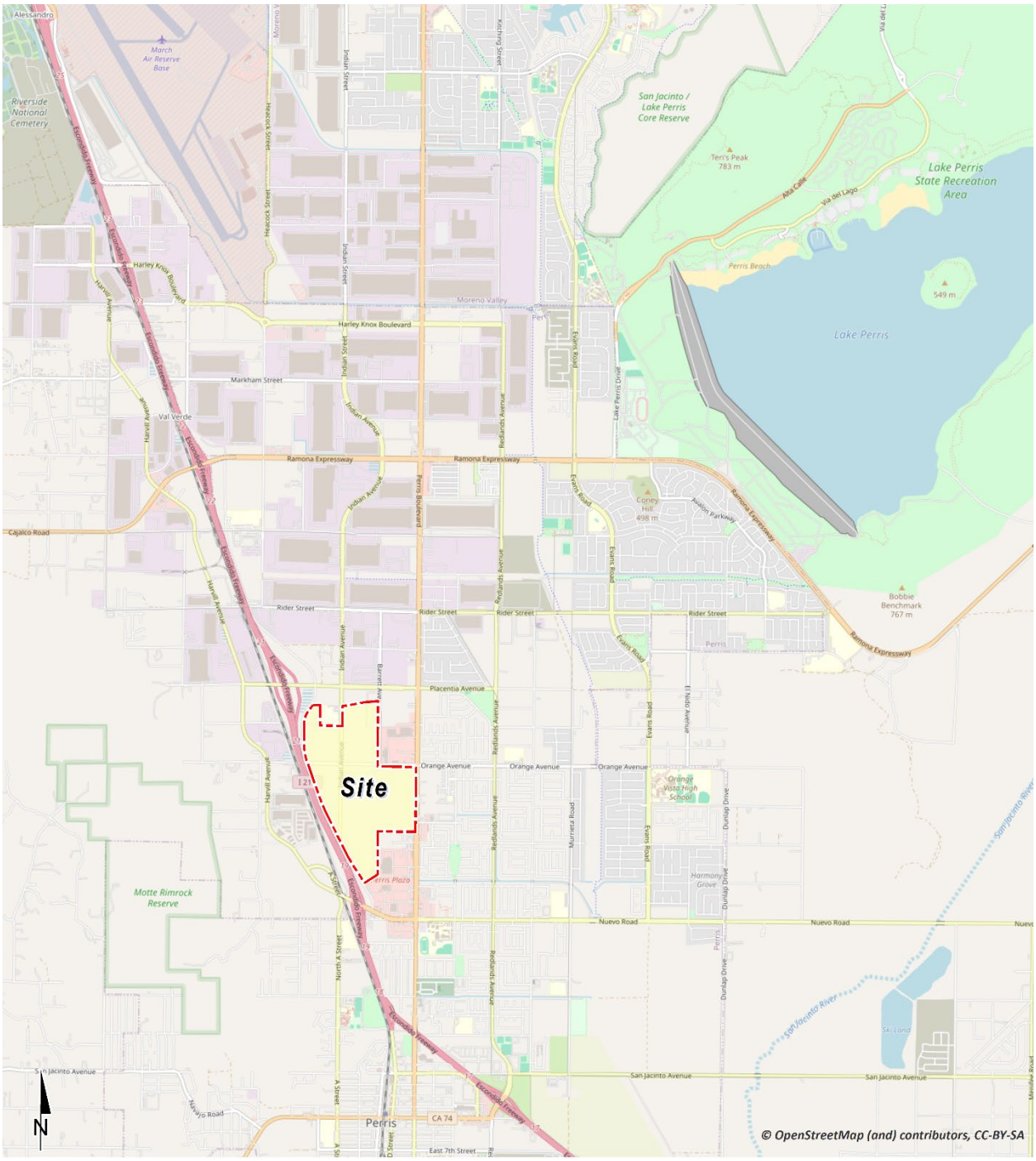
Phase	Building No.	Building/Commercial Use Type	Proposed Square Footage
1 (2026)	1	Parcel Hub	322,079
	2	High-Cube Warehouse	389,000
	3	Light Industrial	113,500
	4	Light Industrial	60,000
	5	Light Industrial	25,000
	6	High-Cube Warehouse	509,000
	7	High-Cube Warehouse	309,000
		Phase 1 Total Industrial Square Footage	**1,727,579**
1 (2026)	Major A	Sporting Good Superstore	50,018
	Major B	Shopping Center	55,056
	Major B Mezzanine	Shopping Center	2,921
1 (2026)	Major C	Shopping Center	23,248
	Major D	Retail	15,012
	Major E	Supermarket	23,256
	Major F	Pet Supply Store	12,500
	Major G	Shopping Center	5,000
	Major H	Shopping Center	5,000
	Major J	Shopping Center	5,376
	Major K	Medical/Dental Office	5,500
	Pad 1	Fast Casual Restaurant	4,472
	Pad 2	Fast Casual Restaurant	4,100
	Pad 3	Fast Casual Restaurant	4,834
	Pad 4A	High-Turnover Sit-Down Restaurant	4,400
	Pad 4B	Shopping Center	4,542
	Pad 5	High-Turnover Sit-Down Restaurant	6,462
	Pad 6	Coffee with Drive-thru, indoor seating	1,800
	Pad 7A	Fast Casual Restaurant	2,408
	Pad 7B	Shopping Center	4,555
	Pad 7C	Shopping Center	2,145
	Pad 8	High-Turnover Sit-Down Restaurant	7,852
	N/A	Gasoline/Service Station (12 VFP)	10,228[1]
	N/A	Commercial Big Box Retail	167,050
	Pad A	Fast Casual Restaurant	5,500
	Pad B	Fast Casual Restaurant	5,500
		Phase 1 Total Commercial Square Footage	**428,507**
2 (2030)	N/A	Industrial Park	3,659,693
	N/A	Industrial Park (Overlay)	348,262

Phase	Building No.	Building/Commercial Use Type	Proposed Square Footage
		Phase 2 Total Industrial Square Footage	**4,007,955**
		Project Buildout (2030) Total Industrial Square Footage	***5,735,535***
		Project Buildout (2030) Total Commercial Square Footage	***428,507***

[1]The square footage represents the gasoline/service station canopy and is presented here for modeling purposes. As such the Phase 1 total commercial square footage does not include the gasoline/service station canopy SF.

As evaluated in the Harvest Landing Specific Plan Traffic Analysis (4), the Project is expected to generate a total of 40,321 two-way trips per day at buildout, including 37,496 two-way passenger vehicle trips per day and 2,825 two-way truck trips per day.

EXHIBIT 1-A: LOCATION MAP



LEGEND:

Site Boundary

EXHIBIT 1-B: SITE PLAN



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2 EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the Project region.

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption and natural gas consumption is from 2022, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates and includes (5):

- As of 2022, approximately 6,882 trillion British Thermal Unit (BTU) of energy was consumed
- As of 2022, approximately 628 million barrels of petroleum
- As of 2022, approximately 2,059 billion cubic feet of natural gas
- As of 2022, approximately 1,322 thousand short tons of coal

According to the EIA, in 2022 the U.S. petroleum consumption comprised about 90% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (6). In 2023, about 253,289 million gallons (or about 6.031 million barrels) of finished petroleum products were consumed in the U.S., an average of about 694 million gallons per day (or about 16.5 million barrels per day) (7). In 2021, California consumed approximately 12,157 million gallons in motor gasoline (33.31 million per day) and approximately 3,541 million gallons of diesel fuel (9.7 million per day) (8).

The most recent data provided by the EIA for energy use in California is reported from 2022 which shows approximate energy usage by each of the following sectors:

- 42.6% for transportation uses
- 22.5% for industrial uses
- 17.6% for residential uses
- 17.4% for commercial uses (9)

According to the EIA, California used approximately 251,869 gigawatt hours of electricity in 2022 (10). By sector in 2022, residential uses utilized 35.6% of the state's electricity, followed by 45.3% for commercial uses, 18.9% for industrial uses, and 0.3% for transportation. Electricity usage in California for differing land uses varies substantially by the type of uses in a building, type of construction materials used in a building, and the efficiency of all electricity-consuming devices within a building (10).

According to the EIA, California used approximately 200,871 million therms of natural gas in 2022 (11). In 2023 (the most recent year for which data is available), by sector, industrial uses utilized 31% of the state's natural gas, followed by 32% used as fuel in the electric power sector, 23% from residential, 13% from commercial, 1% from transportation uses and the remaining 3% was utilized for the operations, processing and production of natural gas itself (11). While the supply of natural gas in the United States and production in the lower 48 states has increased greatly since 2008, California produces little, and imports 90% of its supply of natural gas (11).

In 2023, total system electric generation for California was 281,140 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 215,623 GWh which accounted for approximately 76% of the electricity it uses; the rest was imported from the Pacific Northwest (6%) and the U.S. Southwest (18%) (12). Natural gas is the main source for electricity generation at 43.68% of the total in-state electric generation system power as shown in Table 2-1.

An updated summary of, and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below (13):

- In 2023, California was the seventh-largest producer of crude oil among the 50 states, and the state ranked third in crude oil refining capacity.
- California is the largest consumer of jet fuel and second-largest consumer of motor gasoline among the 50 states.
- California is the second-largest total energy consumer among the states, after Texas, but its per capita energy consumption is the fourth-lowest in the nation.
- In 2023, renewable resources, including hydroelectric power and small-scale solar power, supplied 54% of California's in-state electricity generation. Natural gas fueled another 39% and nuclear power provided almost all the rest.
- In 2023, California was the fourth-largest electricity producer in the nation. It is also the nation's third-largest electricity consumer and imports more electricity than any other state.

As indicated below, California is one of the nation's leading energy-producing states, and California's per capita energy use is among the nation's most efficient. Given the nature of the Project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the Project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2023)

Fuel Type	California In-State Generation (GWh)	% of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Total California Energy Mix (GWh)	Total California Power Mix
Coal	257	0.12%	163	4,561	4,724	4,981	1.77%
Natural Gas	94,192	43.68%	52	8,530	8,582	102,774	36.56%
Oil	36	0.02%	0	0	0	36	0.01%
Other (Waste Heat/Petroleum Coke)	206	0.10%	0	0	0	206	0.07%
Unspecified	0	0.00%	100	10,273	10,373	10,373	3.69%
Total Thermal and Unspecified	***94,690***	***43.91%***	***316***	***23,363***	***23,679***	***118,370***	***42.10%***
Nuclear	17,714	8.22%	196	8,361	8,558	26,272	9.34%
Large Hydro	27,066	12.55%	4,712	1,109	5,821	32,886	11.70%
Biomass	5,037	2.34%	753	-	753	5,790	2.06%
Geothermal	10,999	5.10%	221	2,347	2,569	13,567	4.83%
Small Hydro	4,853	2.25%	133	2	135	4,988	1.77%
Solar	41,344	19.17%	417	6,108	6,525	47,869	17.03%
Wind	13,920	6.46%	9,177	8,302	17,479	31,399	11.17%
Total Non-GHG and Renewable Resources	120,932	56.09%	15,609	26,229	41,838	162,771	57.90%
SYSTEM TOTALS	***215,623***	***100.00%***	***15,925***	***49,593***	***65,518***	***281,140***	***100.00%***

Source: CECs 2023 Total System Electric Generation

2.2 ELECTRICITY

The usage associated with electricity use was calculated using CalEEMod Version 2022.1. The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California Independent Service Operator (ISO) studies revealed the extent to which the Mojave Desert Air Basin (MDAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts. Similarly, the subsequent 2023 IEPR provides information and policy recommendations on advancing a clean, reliable, and affordable energy system (14).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California ISO is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that enough power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (15).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, utilities file annual transmission expansion/modification plans to accommodate the State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Electricity is currently provided to the Project site by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2023 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (16).

Table 2-2, SCE's specific proportional shares of electricity sources in 2023. As indicated in Table 2-2, the 2023 SCE Power Mix has renewable energy at 36.9% of the overall energy resources.

Geothermal resources are at 4.8%, wind power is at 11.2%, large hydroelectric sources are at 11.7%, solar energy is at 17.0%, and coal is at 1.8% (17).

TABLE 2-2: SCE 2023 POWER CONTENT MIX

Energy Resources	2023 SCE Power Mix
Eligible Renewable	**36.9%**
Biomass & Waste	2.1%
Geothermal	4.8%
Eligible Hydroelectric	1.8%
Solar	17.0%
Wind	11.2%
Coal	**1.8%**
Large Hydroelectric	**11.7%**
Natural Gas	**36.6%**
Nuclear	**9.3%**
Other	**0.1%**
Unspecified Sources of power*	3.7%
Total	**100%**

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

The following summary of natural gas customers and volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

> *"The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.*
>
> *California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800, 000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.*
>
> *The overwhelming majority of natural gas utility customers in California are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers*

consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcfd, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e., they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. Another pipeline, the North Baja - Baja Norte Pipeline takes gas off the El Paso Pipeline at the California/Arizona border and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, and authorizes rates for that service, the CPUC may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipelines systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.

Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production.

PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. These storage fields, and four independently owned storage utilities - Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage - help meet peak seasonal and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field.

These storage fields provide a significant amount of infrastructure capacity to help meet California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements.

Prior to the late 1980s, California regulated utilities provided virtually all natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.

The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.

Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.

In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).

In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm

backbone transmission capacity at various receipt points on the SoCalGas system. A certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.

Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.

In order [to] properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California." (18)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the State in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The CPUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

Based on information provided by the Project applicant, the industrial portion of the proposed Project would not utilize natural gas. Natural gas associated with the commercial portion of the Project was calculated by CalEEMod using default parameters.

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. The Department of Motor Vehicles (DMV) identified 36.2 million registered vehicles in California (19), and those vehicles consume an

estimated 17.2 billion gallons of fuel each year.[3] Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California's on-road transportation system includes 396,616 lane miles, more than 26.6 million passenger vehicles and light trucks, and almost 9.0 million medium- and heavy-duty vehicles (19). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. California is the second-largest consumer of petroleum products, after Texas, and accounts for 8% of the nation's total consumption. The State is the largest U.S. consumer of motor gasoline and jet fuel, and 83% of the petroleum consumed in California is used in the transportation sector (20).

California accounts for less than 1% of total U.S. natural gas reserves and production. As with crude oil, California's natural gas production has experienced a gradual decline since 1985. In 2023, about 32% of the natural gas delivered to consumers went to the State's industrial sector, and about 31% was delivered to the electric power sector. Natural gas fueled more than two-fifths of the State's utility-scale electricity generation in 2023. The residential sector, where three-fifths of California households use natural gas for home heating, accounted for 23% of natural gas deliveries. The commercial sector received 13% of the deliveries to end users and the transportation sector consumed the remaining 1% (20).

[3] Fuel consumptions estimated utilizing information from EMFAC2021.

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3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the U.S. Department of Transportation, the U.S. Department of Energy, and the U.S. Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the California Energy Commission (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

3.1 FEDERAL REGULATIONS

3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

ISTEA promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21ST CENTURY (TEA-21)

The TEA-21 was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. The TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. The TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. The TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems (ITS), to help improve operations and management of transportation systems and vehicle safety.

3.2 CALIFORNIA REGULATIONS

3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301[a]). The CEC prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2023 IEPR was adopted February 2024, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2023 IEPR introduces a new

framework for embedding equity and environmental justice at the CEC and the California Energy Planning Library which allows for easier access to energy data and analytics for a wide range of users. Additionally, energy reliability, western electricity integration, gasoline cost factors and price spikes, the role of hydrogen in California's clean energy future, fossil gas transition, and distributed energy resources are topics discussed within the 2023 IEPR (21).

3.2.2 STATE OF CALIFORNIA ENERGY PLAN

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The State Energy Plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

3.2.3 TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that became effective on January 1, 2023[4]. The CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (22). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (23) (24):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).

[4] The 2022 California Green Building Standard Code was first published on July 1, 2022 and amended on July 1, 2024 with the Intervening Code Cycle Update.

- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.1 (5.106.5.3). Alternatively, the power allocation method may be used as an alternative to the requirements mentioned in Section 5.106.5.1, and associated Table 5.106.5.3. Use of Table 5.106.5.3.6 to can be used to determine the total power in kVA required based on the total number of actual parking spaces. Additionally, Table 5.106.5.5.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1).
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is projected to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

3.2.4 AB 1493 Pavley Regulations and Fuel Efficiency Standards

California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

3.2.5 California's Renewable Portfolio Standard (RPS)

First established in 2002 under Senate Bill (SB) 1078, California's Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable resources to 44% of total retail sales by 2024 (25).

3.2.6 Clean Energy and Pollution Reduction Act of 2015 (SB 350)

In October 2015, the legislature approved and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 45% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the CEC, and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electricity transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

3.2.7 EXECUTIVE ORDER N-79-20 AND ADVANCED CLEAN CARS II

On August 25, 2022, CARB approved the Advanced Clean Cars II rule, which codifies the goals set out in Executive Order N-79-20 and establishes a year-by-year roadmap such that by 2035, 100% of new cars and light trucks sold in California will be zero-emission vehicles. Under this regulation, automakers are required to accelerate deliveries of zero-emission light-duty vehicles, beginning with model year 2026. CARB estimates that between 2026 and 2040, the regulation would reduce GHG emissions by a cumulative 395 million metric tons, equivalent to reducing petroleum use by 915 million barrels.

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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

Appendix F of the *State CEQA Guidelines* (26)*,* 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.

In compliance with Appendix G of the *State CEQA Guidelines* (27)*,* 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.

4.2 METHODOLOGY

Information from the CalEEMod outputs for the *Harvest Landing Specific Plan Air Quality Impact Analysis* (AQIA) (2) was utilized in this analysis, detailing Project-related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CALEEMOD

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including 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 (28). 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 Appendices 4.1 through 4.11.

4.2.2 EMISSION FACTORS MODEL

On May 2, 2022, the EPA approved the 2021 version of the EMissions FACtor model (EMFAC2021) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (29). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2021 emission inventory in order to derive the average vehicle fuel economy which is then used to determine the estimated annual fuel consumption associated

with vehicle usage during Project construction and operational activities. For purposes of analysis, the 2025 through 2030 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project. Outputs from the EMFAC2021 model run are provided in Appendix 4.12.

4.3 CONSTRUCTION ENERGY DEMANDS

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project.

It should be noted that the construction associated energy and fuel consumption presented on Tables 4-1 – 4-8 conservatively represent the With Overlay Scenario only, as the construction schedule, equipment and other assumptions would remain the same.

4.3.1 CONSTRUCTION POWER COST

The total Project construction power costs is the summation of the products of the area (sf) by the construction duration and the typical power cost.

CONSTRUCTION DURATION

For purposes of analysis, Off-site construction will begin January 2026 and would last through March 2026. Phase 1 construction is expected to commence in November 2025 and would last through December 2026. Phase 2 construction will begin December 2026 and be completed in December 2030 (2). The construction schedule utilized in the analysis, shown in Table 4-1, represent a "worst-case" analysis scenario. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (30).

TABLE 4-1: CONSTRUCTION DURATION

Phase	Construction Activity	Start Date	End Date	Working Days
Off-Site	Linear, Grading & Excavation	1/5/2026	1/29/2026	19
	Linear, Drainage, Utilities, & Sub-Grade	1/30/2026	2/17/2026	13
	Linear, Paving	2/18/2026	3/4/2026	11
Phase 1 (2026 OY)	Demolition/Crushing	11/3/2025	12/10/2025	28
	Site Preparation	12/11/2025	1/2/2026	17
	Grading	1/5/2026	3/4/2026	43
	Building Construction	3/5/2026	12/25/2026	212
	Paving	3/5/2026	12/25/2026	212
	Architectural Coating	3/5/2026	12/25/2026	212

Phase	Construction Activity	Start Date	End Date	Working Days
Phase 2 (2030 OY)	Demolition	12/26/2026	10/2/2027	200
	Site Preparation	10/3/2027	3/19/2028	120
	Grading	3/20/2028	5/28/2029	310
	Building Construction	5/29/2029	12/31/2030	416
	Paving	2/27/2030	12/31/2030	220
	Architectural Coating	2/27/2030	12/31/2030	220

PROJECT CONSTRUCTION POWER COST

The *2024 National Construction Estimator* identifies a typical power cost per 1,000 sf of building construction per month of $2.66, which was used to calculate the Project's total construction power cost (31).

As shown in Table 4-2, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately $586,646.83.

TABLE 4-2: CONSTRUCTION POWER COST

Phase	Land Use	Power Cost (in 1,000 sf)	Building Construction (in 1,000 sf)	Construction Duration (months)	Power Cost
Phase 1 (2026 OY)	TUMF High Cube (Building 2, 6, and 7)	$2.66	1,207.000	13	$41,738.06
	Parcel Hub (Building 1)	$2.66	322.079	13	$11,137.49
	General Light Industrial (Building 3, 4, and 5)	$2.66	198.500	13	$6,864.13
	Medical Office Building	$2.66	5.500	13	$190.19
	Large Format Retail Anchor	$2.66	167.050	13	$5,776.59
	Shopping Center	$2.66	189.845	13	$6,564.84
	Supermarket	$2.66	23.256	13	$804.19
	Fast Casual Restaurant	$2.66	8.934	13	$308.94
	High-Turnover (Sit -Down) Restaurant	$2.66	21.122	13	$730.40
	Fast Food Restaurant w DT	$2.66	11.000	13	$380.38
	Coffee/Donut Shop w DT	$2.66	1.800	13	$62.24
	Gasoline/Service Station (12 VFP)	$2.66	10.228	13	$353.68
PHASE 1 TOTAL CONSTRUCTION POWER COST					***$74,911.14***
Phase 2 (2030 OY)	Industrial Park	$2.66	3,659.693	48	$467,269.60
	Industrial Park (Overlay)	$2.66	348.262	48	$44,466.09
PHASE 2 TOTAL CONSTRUCTION POWER COST					***$511,735.69***
(PHASES 1-2) TOTAL CONSTRUCTION POWER COST					***$586,646.83***

4.3.2 CONSTRUCTION ELECTRICITY USAGE

The total Project construction electricity usage is the summation of the products of the power cost (estimated in Table 4-3) by the utility provider cost per kilowatt hour (kWh) of electricity.

PROJECT CONSTRUCTION ELECTRICITY USAGE

The SCE's general service rate schedule is used to determine the Project's electrical usage. As of October 1, 2024, SCE's general service rate is $0.16 per kilowatt hours (kWh) of electricity for commercial and industrial services (32). As shown in Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 3,666,543 kWh.

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Phase	Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Phase 1 (2026 OY)	TUMF High Cube (Building 2, 6, and 7)	$0.16	260,863
	Parcel Hub (Building 1)	$0.16	69,609
	General Light Industrial (Building 3, 4, and 5)	$0.16	42,901
	Medical Office Building	$0.16	1,189
	Large Format Retail Anchor	$0.16	36,104
	Shopping Center	$0.16	41,030
	Supermarket	$0.16	5,026
	Fast Casual Restaurant	$0.16	1,931
	High-Turnover (Sit -Down) Restaurant	$0.16	4,565
	Fast Food Restaurant w DT	$0.16	2,377
	Coffee/Donut Shop w DT	$0.16	389
	Gasoline/Service Station (12 VFP)	$0.16	2,211
PHASE 1 TOTAL CONSTRUCTION ELECTRICITY USAGE			***468,195***
Phase 2 (2030 OY)	Industrial Park	$0.16	2,920,435
	Industrial Park (Overlay)	$0.16	277,913
PHASE 2 TOTAL CONSTRUCTION ELECTRICITY USAGE			***3,198,348***
(PHASES 1-2) TOTAL CONSTRUCTION ELECTRICITY USAGE			***3,666,543***

4.3.3 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction.

CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 would operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed. In accordance with the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities, it was assumed that equipment rated 50 or more horsepower would be equipped with CARB Tier 4 compliant engines.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase	Construction Activity	Equipment[1]	Quantity	Hours Per Day
Offsite	Linear, Grading & Excavation	Crawler Tractors	1	8
		Excavators	3	8
		Graders	1	8
		Rollers	2	8
		Rubber Tired Loaders	1	8
		Scrapers	2	8
		Signal Boards	3	8
		Tractors/Loaders/Backhoes	2	8
	Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8
		Generator Sets	1	8
		Graders	1	8
		Plate Compactors	1	8
		Pumps	1	8
		Rough Terrain Forklifts	1	8
		Scrapers	2	8
		Signal Boards	3	8
		Tractors/Loaders/Backhoes	2	8
	Linear, Paving	Pavers	1	8
		Paving Equipment	1	8
		Rollers	3	8
		Signal Boards	3	8
		Tractors/Loaders/Backhoes	2	8
Phase 1 (2026 OY)	Demolition/Crushing	Rubber Tired Dozers	4	8
		Excavators	6	8
		Concrete/Industrial Saws	2	8
		Crushing/Proc. Equipment	2	8
		Rubber Tired Dozers	6	8

Phase	Construction Activity	Equipment[1]	Quantity	Hours Per Day
	Site Preparation	Crawler Tractors	8	8
	Grading	Graders	6	8
		Excavators	12	8
		Crawler Tractors	12	8
		Scrapers	12	8
		Rubber Tired Dozers	6	8
		Bore/Drill Rigs	1	8
	Building Construction	Forklifts	18	8
		Generator Sets	6	8
		Cranes	6	8
		Welders	6	8
		Tractors/Loaders/Backhoes	18	8
	Paving	Pavers	12	8
		Paving Equipment	12	8
		Rollers	12	8
	Architectural Coating	Air Compressors	6	8
Phase 2 (2030 OY)	Demolition	Concrete/Industrial Saws	2	8
		Excavators	6	8
		Rubber Tired Dozers	4	8
	Site Preparation	Rubber Tired Dozers	6	8
		Crawler Tractors	8	8
	Grading	Excavators	4	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	4	8
		Crawler Tractors	4	8
	Building Construction	Cranes	2	8
		Forklifts	6	8
		Generator Sets	2	8
		Tractors/Loaders/Backhoes	6	8
		Welders	2	8
	Paving	Pavers	4	8
		Paving Equipment	4	8
		Rollers	4	8
	Architectural Coating	Air Compressors	2	8

[1] In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

PROJECT CONSTRUCTION EQUIPMENT FUEL CONSUMPTION

Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-7. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer Guidelines (33). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered, which is consistent with industry standards.

Diesel fuel would be supplied by existing commercial and industrial fuel providers serving the Project area and region.[5] As presented in Table 4-5, Project construction activities would consume an estimated 809,474 gallons of diesel fuel. Project construction would represent a "single-event" diesel fuel demand and would not require ongoing or permanent commitment of diesel fuel resources for this purpose.

[5] Based on Appendix A of the CalEEMod User's Guide, Construction consists of several types of off-road equipment. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel.

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 3)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
Off-Site	Linear, Grading & Excavation	19	Crawler Tractors	87	1	8	0.43	299	307
			Excavators	36	3	8	0.38	328	337
			Graders	148	1	8	0.41	485	499
			Rollers	36	2	8	0.38	219	225
			Rubber Tired Loaders	150	1	8	0.36	432	444
			Scrapers	423	2	8	0.48	3,249	3,336
			Signal Boards	6	3	8	0.82	118	121
			Tractors/Loaders/Backhoes	84	2	8	0.37	497	511
	Linear, Drainage, Utilities, & Sub-Grade	13	Air Compressors	37	1	8	0.48	142	100
			Generator Sets	14	1	8	0.74	83	58
			Graders	148	1	8	0.41	485	341
			Plate Compactors	8	1	8	0.43	28	19
			Pumps	11	1	8	0.74	65	46
			Rough Terrain Forklifts	96	1	8	0.4	307	216
			Scrapers	423	2	8	0.48	3,249	2,283
			Signal Boards	6	3	8	0.82	118	83
			Tractors/Loaders/Backhoes	84	2	8	0.37	497	349
	Linear, Paving	11	Pavers	81	1	8	0.42	272	162
			Paving Equipment	89	1	8	0.36	256	152
			Rollers	36	3	8	0.38	328	195

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
			Signal Boards	6	3	8	0.82	118	70
			Tractors/Loaders/Backhoes	84	2	8	0.37	497	296
OFF-SITE TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***10,151***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 3)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
Phase 1 (2026 OY)	Demolition/Crushing	28	Rubber Tired Dozers	367	4	8	0.4	4,698	7,110
			Excavators	36	6	8	0.38	657	994
			Concrete/Industrial Saws	33	2	8	0.73	385	583
			Crushing/Proc. Equipment	12	2	8	0.85	163	247
	Site Preparation	17	Rubber Tired Dozers	367	6	8	0.4	7,046	6,475
			Crawler Tractors	87	8	8	0.43	2,394	2,200
	Grading	43	Graders	148	6	8	0.41	2,913	6,770
			Excavators	36	12	8	0.38	1,313	3,052
			Crawler Tractors	87	12	8	0.43	3,591	8,347
			Scrapers	423	12	8	0.48	19,492	45,305
			Rubber Tired Dozers	367	6	8	0.4	7,046	16,378
			Bore/Drill Rigs	83	1	8	0.5	332	772
	Building Construction	212	Forklifts	82	18	8	0.2	2,362	27,063
			Generator Sets	14	6	8	0.74	497	5,699
			Cranes	367	6	8	0.29	5,109	58,542

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
			Welders	46	6	8	0.45	994	11,386
			Tractors/Loaders/Backhoes	84	18	8	0.37	4,476	51,287
	Paving	212	Pavers	81	12	8	0.42	3,266	37,426
			Paving Equipment	89	12	8	0.36	3,076	35,247
			Rollers	36	12	8	0.38	1,313	15,049
	Architectural Coating	212	Air Compressors	37	6	8	0.48	852	9,769
PHASE 1 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***349,703***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (3 OF 3)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
Phase 2 (2030 OY)	Demolition	200	Concrete/Industrial Saws	33	2	8	0.73	385	4,167
			Excavators	36	6	8	0.38	657	7,099
			Rubber Tired Dozers	367	4	8	0.4	4,698	50,785
	Site Preparation	120	Rubber Tired Dozers	367	6	8	0.4	7,046	45,706
			Crawler Tractors	87	8	8	0.43	2,394	15,530
	Grading	310	Excavators	36	4	8	0.38	438	7,335
			Graders	148	2	8	0.41	971	16,269
			Rubber Tired Dozers	367	2	8	0.4	2,349	39,358
			Scrapers	423	4	8	0.48	6,497	108,873
			Crawler Tractors	87	4	8	0.43	1,197	20,060
			Cranes	367	2	8	0.29	1,703	38,292

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
	Building Construction	416	Forklifts	82	6	8	0.2	787	17,701
			Generator Sets	14	2	8	0.74	166	3,727
			Tractors/Loaders/Backhoes	84	6	8	0.37	1,492	33,546
			Welders	46	2	8	0.45	331	7,448
	Paving	220	Pavers	81	4	8	0.42	1,089	12,946
			Paving Equipment	89	4	8	0.36	1,025	12,193
			Rollers	36	4	8	0.38	438	5,206
	Architectural Coating	220	Air Compressors	37	2	8	0.48	284	3,379
PHASE 2 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***449,621***
(OFF-SITE + PHASE 1 and PHASE 2) TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***809,474***

4.3.4 CONSTRUCTION TRIPS AND VMT

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and haul trucks commuting to and from the site. The number of worker, vendor, and haul trips are presented below in Table 4-6. It should be noted that for Vendor Trips specifically, CalEEMod only assigns Vendor Trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for vendor trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity. Additionally, because paving and architectural coating activities overlap with building construction, the vendor trips assigned to building construction activities are assumed to be the same trips used to cover paving and architectural coating

TABLE 4-6: CONSTRUCTION TRIPS AND VMT

Phase	Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Haul Trips Per Day
Offsite	Linear, Grading & Excavation	38	1	0
	Linear, Drainage, Utilities, & Sub-Grade	33	0	0
	Linear, Paving	25	0	0
Phase 1 (2026 OY)	Demolition/Crushing	35	33	25
	Site Preparation	35	20	0
	Grading	123	51	1,134
	Building Construction	870	251	0
	Paving	90	0	0
	Architectural Coating	174	0	0
Phase 2 (2030 OY)	Demolition	30	126	25
	Site Preparation	35	75	0
	Grading	40	195	121
	Building Construction	1,683	261	30
	Paving	30	0	0
	Architectural Coating	337	0	0

4.3.5 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips (personal vehicles used by workers commuting to the Project from home) would generate an estimated 22,326,781 VMT during Project construction (2). Based on CalEEMod methodology, it is assumed that 50% of all construction worker trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-

trucks (LDT1[6]), and 25% are from light-duty-trucks (LDT2[7]). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2021 version of the EMFAC developed by 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 the CARB to project changes in future emissions from on-road mobile sources (29). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the Riverside (SC) County for the years 2025 through 2030. Data from EMFAC2021 is shown in Appendix 4.12.

As shown in Table 4-7, the estimated fuel consumption resulting from Project construction worker trips is 718,678 gallons. It should be noted that construction worker trips would represent a "single-event" gasoline fuel demand and would not require ongoing or permanent commitment of fuel resources for this purpose.

[6] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[7] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA)

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Off-Site						
2026						
Linear, Grading & Excavation	19	19	18.5	6,679	33.43	200
Linear, Drainage, Utilities, & Sub-Grade	13	17	18.5	4,089	33.43	122
Linear, Paving	11	13	18.5	2,646	33.43	79
Phase 1						
2025						
Demolition/Crushing	28	18	18.5	9,324	32.49	287
Site Preparation	15	18	18.5	5,661	32.49	154
2026						
Site Preparation	2	18	18.5	666	33.43	20
Grading	43	62	18.5	49,321	33.43	1,475
Building Construction	212	435	18.5	1,706,070	33.43	51,028
Paving	212	45	18.5	176,490	33.43	5,279
Architectural Coating	212	87	18.5	341,214	33.43	10,206
Phase 2						
2026						
Demolition	4	15	18.5	1,110	33.43	33
2027						
Demolition	196	15	18.5	54,390	34.29	1,586
Site Preparation	65	18	18.5	21,645	34.29	631
2028						
Site Preparation	55	20	18.5	20,350	35.14	579
Grading	205	842	18.5	3,193,285	35.14	90,865

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
2029						
Grading	106	20	18.5	39,220	35.96	1,091
Building Construction	155	842	18.5	2,414,435	35.96	67,138
2030						
Building Construction	261	842	18.5	4,065,597	36.74	110,654
Paving	220	15	18.5	61,050	36.74	1,662
Architectural Coating	220	169	18.5	687,830	36.74	18,721
TOTAL CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION						***361,809***

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1)

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Off-Site						
2026						
Linear, Grading & Excavation	19	10	18.5	3,515	25.70	137
Linear, Drainage, Utilities, & Sub-Grade	13	9	18.5	2,165	25.70	84
Linear, Paving	11	7	18.5	1,425	25.70	55
Phase 1						
2025						
Demolition/Crushing	28	9	18.5	4,662	25.14	185
Site Preparation	15	9	18.5	2,831	25.14	99
2026						
Site Preparation	2	9	18.5	333	25.70	13
Grading	43	31	18.5	24,661	25.70	959
Building Construction	212	218	18.5	854,996	25.70	33,265
Paving	212	23	18.5	90,206	25.70	3,510

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Architectural Coating	212	44	18.5	172,568	25.70	6,714
Phase 2						
2026						
Demolition	4	8	18.5	592	25.70	23
2027						
Demolition	196	8	18.5	29,008	26.22	1,106
Site Preparation	65	9	18.5	10,823	26.22	413
2028						
Site Preparation	55	9	18.5	9,158	26.76	342
Grading	205	10	18.5	37,925	26.76	1,417
2029						
Grading	106	10	18.5	19,610	27.31	718
Building Construction	155	421	18.5	1,207,218	27.31	44,203
2030						
Building Construction	261	421	18.5	2,032,799	27.86	72,977
Paving	220	8	18.5	32,560	27.86	1,169
Architectural Coating	220	85	18.5	345,950	27.86	12,420
TOTAL CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION						***179,810***

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2)

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Off-Site						
2026						
Linear, Grading & Excavation	19	10	18.5	3,515	26.01	135
Linear, Drainage, Utilities, & Sub-Grade	13	9	18.5	2,165	26.01	83
Linear, Paving	11	7	18.5	1,425	26.01	55
Phase 1						
2025						
Demolition/Crushing	28	9	18.5	4,662	25.29	184
Site Preparation	15	9	18.5	2,831	25.29	99
2026						
Site Preparation	2	9	18.5	333	26.01	13
Grading	43	31	18.5	24,661	26.01	948
Building Construction	212	218	18.5	854,996	26.01	32,874
Paving	212	23	18.5	90,206	26.01	3,468
Architectural Coating	212	44	18.5	172,568	26.01	6,635
Phase 2						
2026						
Demolition	4	8	18.5	592	26.01	23
2027						
Demolition	196	8	18.5	29,008	26.63	1,089
Site Preparation	65	9	18.5	10,823	26.63	406
2028						
Site Preparation	55	9	18.5	9,158	27.23	336
Grading	205	10	18.5	37,925	27.23	1,393
2029						
Grading	106	10	18.5	19,610	27.79	706

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction	155	421	18.5	1,207,218	27.79	43,439
2030						
Building Construction	261	421	18.5	2,032,799	28.31	71,802
Paving	220	8	18.5	32,560	28.31	1,150
Architectural Coating	220	85	18.5	345,950	28.31	12,220
TOTAL CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION						***177,058***
(OFF-SITE + PHASES 1-2) TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION						***718,678***

4.3.6 CONSTRUCTION VENDOR AND HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips (vehicles that deliver materials to the site during construction) would generate an estimated 4,535,192 VMT along area roadways during Project construction (2). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHD) and 50% of all vendor trips are from heavy-heavy duty trucks (HHD). These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (2). Vehicle fuel efficiencies for MHDs and HHDs were estimated using information generated within EMFAC2021. EMFAC2021 was run for the MHD and HHD vehicle classes within the Riverside (SC) for the 2025 through 2030 calendar years. Data from EMFAC2021 is shown in Appendix 4.12.

Based in Table 4-8, it is estimated that 635,035 gallons of fuel will be consumed related to construction vendor and hauling trips during construction. It should be noted that Project construction vendor/haul 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 4-8: VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Off-Site						
2026						
Linear, Grading & Excavation	19	1	10.2	194	8.72	22
Phase 1						
2025						
Demolition/Crushing	28	17	10.2	4,855	8.60	565
Site Preparation	15	10	10.2	1,530	8.60	178
2026						
Site Preparation	2	10	10.2	204	8.72	23
Grading	43	26	10.2	11,404	8.72	1,307
Building Construction	212	126	10.2	272,462	8.72	31,228
Phase 2						
2026						
Demolition	4	63	10.2	2,570	8.72	295
2027						
Demolition	196	63	10.2	125,950	8.87	14,193
Site Preparation	65	38	10.2	25,194	8.87	2,839
2028						
Site Preparation	55	38	10.2	21,318	9.09	2,346
Grading	205	98	10.2	204,918	9.09	22,552
2029						
Grading	106	98	10.2	105,958	9.37	11,313
Building Construction	155	131	10.2	207,111	9.37	22,112
2030						
Building Construction	261	131	10.2	348,748	9.72	35,876
TOTAL CONSTRUCTION VENDOR (MHDT) FUEL CONSUMPTION						***144,848***

TABLE 4-8: VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Off-Site						
2026						
Linear, Grading & Excavation	19	1	10.2	194	6.33	31
Phase 1						
2025						
Demolition/Crushing	28	17	10.2	4,855	6.22	781
Site Preparation	15	10	10.2	1,530	6.22	246
2026						
Site Preparation	2	10	10.2	204	6.33	32
Grading	43	26	10.2	11,404	6.33	1,803
Building Construction	212	126	10.2	272,462	6.33	43,070
Phase 2						
2026						
Demolition	4	63	10.2	2,570	6.33	406
2027						
Demolition	196	63	10.2	125,950	6.45	19,524
Site Preparation	65	38	10.2	25,194	6.45	3,906
2028						
Site Preparation	55	38	10.2	21,318	6.60	3,231
Grading	205	98	10.2	204,918	6.60	31,056
2029						
Grading	106	98	10.2	105,958	6.76	15,674
Building Construction	155	131	10.2	207,111	6.76	30,637
2030						
Building Construction	261	131	10.2	348,748	6.93	50,293
TOTAL CONSTRUCTION VENDOR (HHDT) FUEL CONSUMPTION						***200,691***

TABLE 4-8: HAULING FUEL CONSUMPTION ESTIMATES (HHDT)

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Phase 1						
2025						
Demolition/Crushing	28	25	25	17,500	6.22	2,815
2026						
Grading	43	1134	20	975,240	6.33	154,164
Phase 2						
2026						
Demolition	4	25	25	2,500	6.33	395
2027						
Demolition	196	25	25	122,500	6.45	18,990
2028						
Grading	205	121	20	496,100	6.60	75,186
2029						
Grading	106	121	20	256,520	6.76	37,946
TOTAL CONSTRUCTION HAULING (HHDT) FUEL CONSUMPTION						***289,496***
(OFF-SITE + PHASES 1-2) TOTAL CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION						***635,035***

4.3.7 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

Starting in 2014, 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. 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 the construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

Construction contractors would be required to comply with applicable CARB regulations regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additional construction-source energy efficiencies would occur due to required California regulations and best available control measures (BACM). For example, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Section 2449(d)(3) requires that grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling." In this manner, construction equipment operators are required to be informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

4.4 OPERATIONAL ENERGY DEMANDS

The proposed Project analysis includes two discreet Scenarios (A and B) that have been evaluated to determine a range of impacts that could occur based on different truck trip lengths. Scenario A is based on recommendations from SCAQMD's WAIRE Program and Scenario B is based on Streetlight™ data collected for the project vicinity. As this difference in trip lengths would only affect the Mobile Source Category, Section 4.4.1 Transportation Fuel Demands includes separate sections for both Scenario A and Scenario B trip lengths to clearly summarize each Scenario.

Additionally, as mentioned previously, for purposes of analysis and conservative scenario, the 10.66-acre Overlay area of the Project will be analyzed as a With Overlay Scenario and Without Overlay Scenario, as it is unknown at this time whether the Overlay area would be built out. As such under both trip lengths, Scenario A and Scenario B, a With Overlay Scenario and Without Overlay Scenario is presented in the Table headings, as shown in Tables 4-9 – 4-12. Additionally, a With Overlay Scenario and Without Overlay Scenario was also evaluated in Sections 4.4.3 Stationary Source Energy Demands and 4.4.4 Facility Energy Demands.

Energy consumption in support of or related to Project operations would include transportation fuel demands (fuel consumed by passenger car and truck vehicles accessing the Project site), fuel demands from operational equipment, and facilities energy demands (energy consumed by buildings operations and site maintenance activities).

4.4.1 TRANSPORTATION FUEL 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 evaluating the vehicle fleet mix and the total VMT. As with worker and vendors trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2021 developed by CARB (29). EMFAC2021 was run for the Riverside (SC) for the 2025 through 2030 calendar years. Data from EMFAC2021 is shown in Appendix 4.12.

SCENARIO A

The estimated transportation energy demands are summarized in Tables 4-9 and 4-10 for Scenario A. As summarized in Tables 4-9 and 4-10, the Project With Overlay Scenario would result in 124,815,942 annual VMT and 6,604,763 gallons per year during operations, while the Project Without Overlay Scenario would result in 120,662,495 annual VMT and 6,308,434 gallons per year during operations.

TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITH OVERLAY SCENARIO

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
Phase 1 (2026 OY)	LDA	33.43	35,739,266	1,068,952
	LDT1	25.70	2,735,911	106,446

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
	LDT2	26.01	14,760,716	567,532
	MDV	20.88	11,401,610	546,062
	LHDT1	16.89	2,844,677	168,385
	LHDT2	16.01	810,997	50,664
	MHDT	8.72	1,839,212	210,798
	HHDT	6.33	4,197,388	663,515
	OBUS	6.71	37,003	5,512
	UBUS	4.56	23,760	5,216
	MCY	42.07	1,665,310	39,584
	SBUS	6.43	82,186	12,774
	MH	5.86	369,866	63,157
PHASE 1 FUEL CONSUMPTION (ALL VEHICLES)			***76,507,902***	***3,508,599***
Phase 2 (2030 OY)	LDA	36.74	14,167,010	385,586
	LDT1	27.86	992,499	35,631
	LDT2	28.31	6,277,916	221,747
	MDV	22.91	4,429,562	193,374
	LHDT1	18.91	3,710,095	196,235
	LHDT2	17.52	1,063,450	60,691
	MHDT	9.72	3,864,757	397,570
	HHDT	6.93	13,172,716	1,899,650
	MCY	42.56	630,046	14,804
PHASE 2 FUEL CONSUMPTION (ALL VEHICLES)			***48,308,051***	***3,405,287***
Specific Plan Buildout (2030 OY)	LDA	36.74	49,680,493	1,352,163
	LDT1	27.86	3,480,466	124,948
	LDT2	28.31	22,015,230	777,618
	MDV	22.91	15,533,456	678,117
	LHDT1	18.91	6,436,376	340,434
	LHDT2	17.52	1,844,903	105,289
	MHDT	9.72	5,755,477	592,070
	HHDT	6.93	17,425,590	2,512,961
	OBUS	7.42	34,857	4,696
	UBUS	8.73	22,928	2,627
	MCY	42.56	2,209,422	51,913

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
	SBUS	6.63	80,496	12,149
	MH	5.95	296,249	49,778
SPECIFIC PLAN BUILDOUT (PHASES 1-2) FUEL CONSUMPTION (ALL VEHICLES)			***124,815,942***	***6,604,763***

TABLE 4-10: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITHOUT OVERLAY SCENARIO

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
Phase 1 (2026 OY)	LDA	33.43	35,739,266	1,068,952
	LDT1	25.70	2,735,911	106,446
	LDT2	26.01	14,760,716	567,532
	MDV	20.88	11,401,610	546,062
	LHDT1	16.89	2,844,677	168,385
	LHDT2	16.01	810,997	50,664
	MHDT	8.72	1,839,212	210,798
	HHDT	6.33	4,197,388	663,515
	OBUS	6.71	37,003	5,512
	UBUS	4.56	23,760	5,216
	MCY	42.07	1,665,310	39,584
	SBUS	6.43	82,186	12,774
	MH	5.86	369,866	63,157
PHASE 1 FUEL CONSUMPTION (ALL VEHICLES)			***76,507,902***	***3,508,599***
Phase 2 (2030 OY)	LDA	36.74	12,939,774	352,184
	LDT1	27.86	906,523	32,544
	LDT2	28.31	5,734,083	202,538
	MDV	22.91	4,045,845	176,622
	LHDT1	18.91	3,389,713	179,289
	LHDT2	17.52	971,617	55,450
	MHDT	9.72	3,529,233	363,054
	HHDT	6.93	12,022,349	1,733,754
	MCY	42.56	575,468	13,521
PHASE 2 FUEL CONSUMPTION (ALL VEHICLES)			***44,114,604***	***3,108,958***

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
Specific Plan Buildout (2030 OY)	LDA	36.74	48,453,256	1,318,761
	LDT1	27.86	3,394,489	121,862
	LDT2	28.31	21,471,397	758,408
	MDV	22.91	15,149,739	661,366
	LHDT1	18.91	6,115,994	323,488
	LHDT2	17.52	1,753,069	100,048
	MHDT	9.72	5,419,954	557,554
	HHDT	6.93	16,275,223	2,347,065
	OBUS	7.42	34,857	4,696
	UBUS	8.73	22,928	2,627
	MCY	42.56	2,154,844	50,631
	SBUS	6.63	80,496	12,149
	MH	5.95	296,249	49,778
SPECIFIC PLAN BUILDOUT (PHASES 1-2) FUEL CONSUMPTION (ALL VEHICLES)			***120,622,495***	***6,308,434***

SCENARIO B

The estimated transportation energy demands are summarized in Tables 4-11 and 4-12 for Scenario B. As summarized in Tables 4-11 and 4-12, the Project With Overlay Scenario would result in 147,627,441 annual VMT and 9,275,507 gallons per year during operations, while the Project Without Overlay Scenario would result in 141,838,219 annual VMT and 8,792,036 gallons per year during operations.

TABLE 4-11: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITH OVERLAY SCENARIO

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
Phase 1 (2026 OY)	LDA	33.43	35,739,266	1,068,952
	LDT1	25.70	2,735,911	106,446
	LDT2	26.01	14,760,716	567,532
	MDV	20.88	11,401,610	546,062
	LHDT1	16.89	3,612,435	213,831
	LHDT2	16.01	1,029,880	64,338
	MHDT	8.72	2,628,700	301,284
	HHDT	6.33	6,894,452	1,089,862
	OBUS	6.71	37,003	5,512

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
	UBUS	4.56	23,760	5,216
	MCY	42.07	1,665,310	39,584
	SBUS	6.43	82,186	12,774
	MH	5.86	369,866	63,157
PHASE 1 FUEL CONSUMPTION (ALL VEHICLES)			***80,981,094***	***4,084,551***
Phase 2 (2030 OY)	LDA	36.74	14,167,010	385,586
	LDT1	27.86	992,499	35,631
	LDT2	28.31	6,277,916	221,747
	MDV	22.91	4,429,562	193,374
	LHDT1	18.91	6,829,475	361,226
	LHDT2	17.52	1,957,579	111,719
	MHDT	9.72	7,114,174	731,840
	HHDT	6.93	24,248,095	3,496,841
	MCY	42.56	630,046	14,804
PHASE 2 FUEL CONSUMPTION (ALL VEHICLES)			***66,646,358***	***5,552,767***
Specific Plan Buildout (2030 OY)	LDA	36.74	49,680,493	1,352,163
	LDT1	27.86	3,480,466	124,948
	LDT2	28.31	22,015,230	777,618
	MDV	22.91	15,533,456	678,117
	LHDT1	18.91	10,322,593	545,984
	LHDT2	17.52	2,958,836	168,861
	MHDT	9.72	9,794,383	1,007,554
	HHDT	6.93	31,198,033	4,499,098
	OBUS	7.42	34,857	4,696
	UBUS	8.73	22,928	2,627
	MCY	42.56	2,209,422	51,913
	SBUS	6.63	80,496	12,149
	MH	5.95	296,249	49,778
SPECIFIC PLAN BUILDOUT (PHASES 1-2) FUEL CONSUMPTION (ALL VEHICLES)			***147,627,441***	***9,275,507***

TABLE 4-12: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION – WITHOUT OVERLAY SCENARIO

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
Phase 1 (2026 OY)	LDA	33.43	35,739,266	1,068,952
	LDT1	25.70	2,735,911	106,446
	LDT2	26.01	14,760,716	567,532
	MDV	20.88	11,401,610	546,062
	LHDT1	16.89	3,612,435	213,831
	LHDT2	16.01	1,029,880	64,338
	MHDT	8.72	2,628,700	301,284
	HHDT	6.33	6,894,452	1,089,862
	OBUS	6.71	37,003	5,512
	UBUS	4.56	23,760	5,216
	MCY	42.07	1,665,310	39,584
	SBUS	6.43	82,186	12,774
	MH	5.86	369,866	63,157
PHASE 1 FUEL CONSUMPTION (ALL VEHICLES)			***80,981,094***	***4,084,551***
Phase 2 (2030 OY)	LDA	36.74	12,939,774	352,184
	LDT1	27.86	906,523	32,544
	LDT2	28.31	5,734,083	202,538
	MDV	22.91	4,045,845	176,622
	LHDT1	18.91	6,239,742	330,033
	LHDT2	17.52	1,788,540	102,072
	MHDT	9.72	6,496,569	668,306
	HHDT	6.93	22,130,592	3,191,474
	MCY	42.56	575,468	13,521
PHASE 2 FUEL CONSUMPTION (ALL VEHICLES)			***60,857,136***	***5,069,295***
Specific Plan Buildout (2030 OY)	LDA	36.74	48,453,256	1,318,761
	LDT1	27.86	3,394,489	121,862
	LDT2	28.31	21,471,397	758,408
	MDV	22.91	15,149,739	661,366
	LHDT1	18.91	9,732,860	514,792
	LHDT2	17.52	2,789,796	159,214
	MHDT	9.72	9,176,778	944,021

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
	HHDT	6.93	29,080,530	4,193,731
	OBUS	7.42	34,857	4,696
	UBUS	8.73	22,928	2,627
	MCY	42.56	2,154,844	50,631
	SBUS	6.63	80,496	12,149
	MH	5.95	296,249	49,778
SPECIFIC PLAN BUILDOUT (PHASES 1-2) FUEL CONSUMPTION (ALL VEHICLES)			***141,838,219***	***8,792,036***

4.4.2 ON-SITE CARGO HANDLING EQUIPMENT FUEL DEMANDS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, both Scenario A and Scenario B With Overlay Scenario were assumed to include 6 pieces of equipment in Phase 1, 14 pieces of equipment in Phase 2 and 20 pieces of equipment at the Specific Plan Buildout. Scenario A and Scenario B Without Overlay Scenario were assumed to include 6 pieces of equipment in Phase 1, 13 pieces of equipment in Phase 2 and 19 pieces of equipment at the Specific Plan Buildout [8].

Each piece of equipment was modeled as a 175-horsepower natural gas-powered port tractor and assumed to operate 4 hours a day[9] for 365 days of the year. Based on usage factors from EMFAC 2021, it is estimated that on-site cargo handling equipment at the Specific Plan Buildout would consume 97,480 gallons of fuel per year for both Scenario A and Scenario B With Overlay Scenario and 92,838 gallons of fuel per year for both Scenario A and Scenario B Without Overlay Scenario.

TABLE 4-13: ON-SITE CARGO HANDING EQUIPMENT FUEL CONSUMPTION – SCENARIO A AND SCENARIO B

Scenario	Duration (Days)	Equipment	Quantity	Usage Hours	Fuel Consumption (gals./hr.)	Activity (hrs./yr)	Total Fuel Consumption
With Overlay	365	Cargo Handling Equipment - Port	20	4	3.18	30,660	97,480
Without Overlay	365	Cargo Handling Equipment - Port	19	4	3.18	29,200	92,838

In accordance with the City of Perris Good Neighbor Guidelines it was assumed that only zero-emission on-site cargo handling equipment would be utilized for industrial warehouse uses.

[8] Based on SCAQMD's April 2021 Second Draft Report for Rule 2305, it is estimated that warehouses operate an average of 3.6 yard trucks per million square feet of warehouse space.

[9] Based in Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

However, zero-emission on-site cargo handling equipment would be required for all onsite uses per Mitigation Measure AQ-10.

4.4.3 STATIONARY SOURCE ENERGY DEMANDS

Fuel consumption estimates from stationary sources are presented in Tables 4-14 and 4-15. As previously stated, the aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines.

As summarized in Table 4-14, the proposed Project With Overlay Scenario conservatively assumed to include the installation of seven (7) 300-horsepower diesel-powered fire pumps at Phase 1, sixteen (16) 300-horsepower diesel-powered fire pumps at Phase 2, and twenty-three (23) 300-horsepower diesel-powered fire pumps at Specific Plan Buildout (one for each building proposed for development). Additionally, the proposed Project With Overlay Scenario conservatively assumed the installation of five (5) diesel-powered emergency generators rated at 300-horsepower at Phase 1, sixteen (16) diesel-powered emergency generators rated at 300-horsepower at Phase 2, and twenty-one (21) diesel-powered emergency generators rated at 300-horsepower at Specific Plan Buildout .

As summarized in Table 4-15, the proposed Project Without Overlay Scenario conservatively assumed to include the installation of seven (7) 300-horsepower diesel-powered fire pumps at Phase 1, fifteen (15) 300-horsepower diesel-powered fire pumps at Phase 2, and twenty-two (22) 300-horsepower diesel-powered fire pumps at Specific Plan Buildout (one for each building proposed for development). Additionally, the proposed Project Without Overlay Scenario conservatively assumed the installation of five (5) diesel-powered emergency generators rated at 300-horsepower at Phase 1, fifteen (15) diesel-powered emergency generators rated at 300-horsepower at Phase 2, and twenty (20) diesel-powered emergency generators rated at 300-horsepower at Specific Plan Buildout .

The fire pumps and emergency generators were each estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Diesel fuel would be supplied by existing commercial and industrial fuel providers serving the region. As presented in Tables 4-14 and 4-15, the Project With Overlay Scenario stationary sources would consume an estimated 24,856 gallons of diesel fuel, while the Project Without Overlay Scenario stationary sources would consume an estimated 23,726 gallons of diesel fuel.

TABLE 4-14: STATIONARY SOURCE EQUIPMENT FUEL CONSUMPTION ESTIMATES – WITH OVERLAY SCENARIO

Phase	Equipment	HP Rating	Quantity	Usage Hours	Annual Hourly Usage	Load Factor	HP-hrs/day	Total Fuel Consumption
1	Fire Pump	300	7	1	50	0.73	2,100	3,954
	Emergency Generator	300	5	1	50	0.73	1,500	2,825

PHASE 1 STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***6,779***
2	Fire Pump	300	16	1	50	0.73	4,800	9,039
	Emergency Generator	300	16	1	50	0.73	4,800	9,039
PHASE 2 STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***18,077***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***24,856***

TABLE 4-15: STATIONARY SOURCE EQUIPMENT FUEL CONSUMPTION ESTIMATES – WITHOUT OVERLAY SCENARIO

Phase	Equipment	HP Rating	Quantity	Usage Hours	Annual Hourly Usage	Load Factor	HP-hrs/day	Total Fuel Consumption
1	Fire Pump	300	7	1	50	0.73	2,100	3,954
	Emergency Generator	300	5	1	50	0.73	1,500	2,825
PHASE 1 STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***6,779***
2	Fire Pump	300	15	1	50	0.73	4,500	8,474
	Emergency Generator	300	15	1	50	0.73	4,500	8,474
PHASE 2 STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***16,947***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)								***23,726***

4.4.4 FACILITY ENERGY DEMANDS

Project building operations activities would result in the consumption of electricity and natural gas. Electricity and natural gas would be supplied to the Project by SCE and SoCal Gas. Annual electricity and natural gas demands of the Project are summarized in Tables 4-16 and 4-17 and provided in Appendix 4.12. As presented in Tables 4-16 and 4-17, the Project With Overlay Scenario building operations activities would consume an estimated 91,052,390 kWh/year of electricity and 9,797,660 kBTU/year of natural gas, while the Project Without Overlay Scenario building operations activities would consume an estimated 84,977,596 kWh/year of electricity and 9,797,660 kBTU/year of natural gas.

Based on information provided by the Project applicant, the industrial portion of the proposed Project would not utilize natural gas. Natural gas associated with the commercial portion of the Project was calculated by CalEEMod using default parameters.

TABLE 4-16: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITH OVERLAY SCENARIO

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
1	TUMF High Cube (Building 2, 6, and 7)	5,555,038	0
	Parcel Hub (Building 1)	1,482,321	0

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
	General Light Industrial (Building 3, 4, and 5)	3,462,470	0
	Medical Office Building	95,937	151,727
	Large Format Retail Anchor	5,358,917	2,803,892
	Shopping Center	1,852,582	1,124,295
	Supermarket	746,046	390,346
	Fast Casual Restaurant	313,717	1,019,002
	High-Turnover (Sit -Down) Restaurant	741,697	2,409,150
	Fast Food Restaurant w DT	386,264	1,254,647
	Coffee/Donut Shop w DT	63,207	205,306
	Gasoline/Service Station (12 VFP)	97,872	439,296
	Parking Lot	984,872	0
PHASE 1 PROJECT ENERGY DEMAND		***21,140,941***	***9,797,660***
2	Industrial Park	63,836,655	0
	Industrial Park (Overlay)	6,074,794	0
PHASE 2 PROJECT ENERGY DEMAND		***69,911,449***	***0***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) PROJECT ENERGY DEMAND		***91,052,390***	***9,797,660***

kWh – kilowatt hours
kBTU – kilo-British Thermal Units

TABLE 4-17: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITHOUT OVERLAY SCENARIO

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
1	TUMF High Cube (Building 2, 6, and 7)	5,555,038	0
	Parcel Hub (Building 1)	1,482,321	0
	General Light Industrial (Building 3, 4, and 5)	3,462,470	0
	Medical Office Building	95,937	151,727
	Large Format Retail Anchor	5,358,917	2,803,892
	Shopping Center	1,852,582	1,124,295
	Supermarket	746,046	390,346
	Fast Casual Restaurant	313,717	1,019,002
	High-Turnover (Sit -Down) Restaurant	741,697	2,409,150
	Fast Food Restaurant w DT	386,264	1,254,647
	Coffee/Donut Shop w DT	63,207	205,306

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
	Gasoline/Service Station (12 VFP)	97,872	439,296
	Parking Lot	984,872	0
	PHASE 1 PROJECT ENERGY DEMAND	***21,140,941***	***9,797,660***
2	Industrial Park	63,836,655	0
	PHASE 2 PROJECT ENERGY DEMAND	***63,836,655***	***0***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) PROJECT ENERGY DEMAND		***84,977,596***	***9,797,660***

kWh – kilowatt hours
kBTU – kilo-British Thermal Units

PROJECT MITIGATION MEASURES

Mitigation measure MM GHG-4 was incorporated into CalEEMod and would directly reduce energy usage. With implementation of mitigation measure MM GHG-4 appliances were assumed to be energy star rated and water fixtures were assumed to be efficient.

Annual electricity and natural gas demands of the Project with mitigation are summarized in Tables 4-18 and 4-19 and provided in Appendix 4.12. As presented in Tables 4-18 and 4-19, the Project With Overlay Scenario building operations activities would consume an estimated 88,679,855 kWh/year of electricity and 9,797,660 kBTU/year of natural gas, while the Project Without Overlay Scenario building operations activities would consume an estimated 82,608,111 kWh/year of electricity and 9,797,660 kBTU/year of natural gas.

Based on information provided by the Project applicant, the industrial portion of the proposed Project would not utilize natural gas. Natural gas associated with the commercial portion of the Project was calculated by CalEEMod using default parameters.

TABLE 4-18: PROJECT ANNUAL OPERATIONAL BUILDING ENERGY DEMAND SUMMARY – WITH OVERLAY SCENARIO WITH MITIGATION

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
1	TUMF High Cube (Building 2, 6, and 7)	5,555,038	0
	Parcel Hub (Building 1)	1,482,321	0
	General Light Industrial (Building 3, 4, and 5)	3,460,731	0
	Medical Office Building	95,889	151,727
	Large Format Retail Anchor	3,536,697	2,803,892
	Shopping Center	1,827,696	1,124,295
	Supermarket	492,364	390,346
	Fast Casual Restaurant	264,822	1,019,002
	High-Turnover (Sit -Down) Restaurant	626,100	2,409,150

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
	Fast Food Restaurant w DT	326,063	1,254,647
	Coffee/Donut Shop w DT	53,356	205,306
	Gasoline/Service Station (12 VFP)	97,555	439,296
	Parking Lot	984,872	0
PHASE 1 PROJECT ENERGY DEMAND		***18,803,505***	***9,797,660***
2	Industrial Park	63,804,606	0
	Industrial Park (Overlay)	6,071,744	0
PHASE 2 PROJECT ENERGY DEMAND		***69,876,350***	***0***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) PROJECT ENERGY DEMAND		***88,679,855***	***9,797,660***

kWh – kilowatt hours
kBTU – kilo-British Thermal Units

TABLE 4-19: PROJECT ANNUAL OPERATIONAL ENERGY BUILDING DEMAND SUMMARY – WITHOUT OVERLAY SCENARIO WITH MITIGATION

Phase	Land Use	Electricity Demand (kWh/year)	Natural Gas Demand (kBTU/year)
1	TUMF High Cube (Building 2, 6, and 7)	5,555,038	0
	Parcel Hub (Building 1)	1,482,321	0
	General Light Industrial (Building 3, 4, and 5)	3,460,731	0
	Medical Office Building	95,889	151,727
	Large Format Retail Anchor	3,536,697	2,803,892
	Shopping Center	1,827,696	1,124,295
	Supermarket	492,364	390,346
	Fast Casual Restaurant	264,822	1,019,002
	High-Turnover (Sit -Down) Restaurant	626,100	2,409,150
	Fast Food Restaurant w DT	326,063	1,254,647
	Coffee/Donut Shop w DT	53,356	205,306
	Gasoline/Service Station (12 VFP)	97,555	439,296
	Parking Lot	984,872	0
PHASE 1 PROJECT ENERGY DEMAND		***18,803,505***	***9,797,660***
2	Industrial Park	63,804,606	0
PHASE 2 PROJECT ENERGY DEMAND		***63,836,655***	***0***
SPECIFIC PLAN BUILDOUT (PHASE 1 & PHASE 2) PROJECT ENERGY DEMAND		***82,608,111***	***9,797,660***

kWh – kilowatt hours
kBTU – kilo-British Thermal Units

4.4.5 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title 24 and the California Green Building Standards Code).

ENHANCED VEHICLE FUEL EFFICIENCIES

Project annual fuel consumption estimates presented previously in Tables 4-9 through 4-12 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. The location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be approximately $586,646.83. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project buildout, is calculated to be approximately 3,666,543 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 809,474 gallons of diesel fuel during construction. 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. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 718,678 gallons. Additionally, fuel consumption from construction vendor/hauling trips (MHDs and HHDs) will total approximately 635,035 gallons of fuel will be consumed related to construction vendor and hauling trips construction. Diesel fuel would be supplied by City and regional commercial and industrial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. 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 (34). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 Operational Energy Demands

Transportation Energy Demands

Annual vehicular trips and related VMT generated by the operation of the Project for Option A would result in a fuel demand of 124,815,942 annual VMT and 6,604,763 gallons per year for the Project With Overlay Scenario and 120,662,495 annual VMT and 6,308,434 gallons per year for the Project Without Overlay Scenario during operations. Additionally, annual vehicular trips and related VMT generated by the operation of the Project for Option B would result in a fuel demand of 147,627,441 annual VMT and 9,275,507 gallons per year for the Project With Overlay Scenario and 141,838,219 annual VMT and 8,792,036 gallons per year for the Project Without Overlay Scenario during operations.

Fuel would be provided by current and future commercial and industrial vendors. Trip generation and VMT generated by the Project are consistent with other commercial and industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Ed., 2021); and CalEEMod. As such, Project operations would not result in excessive and wasteful vehicle trips and VMT, nor excess and wasteful vehicle energy consumption compared to other commercial and industrial uses.

It should be noted that the state strategy for the transportation sector for medium and heavy-duty trucks is focused on making trucks more efficient and expediting truck turnover rather than reducing VMT from trucks. This is in contrast to the passenger vehicle component of the transportation sector where both per-capita VMT reductions and an increase in vehicle efficiency are forecasted to be needed to achieve the overall state emissions reductions goals.

Heavy duty trucks involved in goods movements are generally controlled on the technology side and through fleet turnover of older trucks and engines to newer and cleaner trucks and engines. The first battery-electric heavy-heavy duty trucks are being tested this year and SCAQMD is looking to integrate this new technology into large-scale truck operations. The following state strategies reduce GHG emissions from the medium and heavy-duty trucks:

- CARB's Mobile Source Strategy focuses on reducing GHGs through the transition to zero and low emission vehicles and from medium-duty and heavy-duty trucks.
- CARB's Sustainable Freight Action Plan establishes a goal to improve freight efficiency by 25% by 2030, deploy over 100,000 freight vehicles and equipment capable of zero emission operation

and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.

- CARB's Emissions Reduction Plan for Ports and Goods Movement (Goods Movement Plan) in California focuses on reducing heavy-duty truck-related emissions focus on establishment of emissions standards for trucks, fleet turnover, truck retrofits, and restriction on truck idling (CARB 2006). While the focus of Goods Movement Plan is to reduce criteria air pollutant and air toxic emissions, the strategies to reduce these pollutants would also generally have a beneficial effect in reducing GHG emissions.
- CARB's On-Road Truck and Bus Regulation (2010) requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent (35).
- CARB's Heavy-Duty (Tractor-Trailer) GHG Regulation requires SmartWay tractor trailers that include idle-reduction technologies, aerodynamic technologies, and low-rolling resistant tires that would reduce fuel consumption and associated GHG emissions.

The proposed Project would implement mitigation measures that would facilitate the accessibility, parking, and loading of trucks on-site.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. The location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code and City requirements, the Project would promote the use of bicycles as an alternative means of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

FACILITY ENERGY DEMANDS

The Project without mitigation With Overlay Scenario facility operational energy demands are estimated at 91,052,390 kWh/year of electricity demand and 9,797,660 kBTU/year of natural gas demand, while the Project Without Overlay Scenario facility operational energy demands are estimated at 84,977,596 kWh/year of electricity demand and 9,797,660 kBTU/year of natural gas demand. The Project with Mitigation With Overlay Scenario building operations activities would consume an estimated 88,679,855 kWh/year of electricity and 9,797,660 kBTU/year of natural gas, while the Project Without Overlay Scenario building operations activities would consume an estimated 82,608,111 kWh/year of electricity and 9,797,660 kBTU/year of natural gas. Electricity and natural gas would be supplied by SCE and SoCal Gas. Based on information provided by the Project applicant, the industrial portion of the proposed Project would not utilize natural gas. Natural gas associated with the commercial portion of the Project was calculated by CalEEMod

using default parameters. In accordance with the City of Perris Good Neighbor Guidelines, all operational cargo handling equipment is required to be electrically powered.

Additionally, it is expected that Project With Overlay Scenario stationary sources would result in approximately 24,856 gallons of fuel usage per year, and Project Without Overlay Scenario stationary sources would result in approximately 23,726 gallons of fuel usage per year. The Project proposes conventional commercial and industrial 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 commercial and industrial uses of similar scale and configuration.

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

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5 CONCLUSIONS

5.1 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?

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful, or unnecessary consumption of energy. The Project would therefore 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. Therefore, energy impacts associated with the proposed Project would be less than significant and mitigation is not required.

5.2 ENERGY IMPACT 2

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

The Project's consistency with the applicable state and local plans is discussed below.

CONSISTENCY WITH ISTEA

Transportation and access to the Project site is provided by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEA because SCAG is not planning for intermodal facilities on or through the Project site.

Consistency with ISTEA supports decreasing overall per capita energy consumption and decreased reliance on fossil fuels, consistent with State CEQA Guidelines Appendix F as workers and customers traveling to and from the site can use public transportation which would decrease fuel and overall VMT.

CONSISTENCY WITH TEA-21

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.

Consistency with TEA-21 supports decreasing overall per capita energy consumption and decreased reliance on fossil fuels, consistent with State CEQA Guidelines Appendix F as workers and customers traveling to and from the site can use public transportation which would decrease fuel and overall VMT.

CONSISTENCY WITH IEPR

Electricity would be provided to the Project by SCE. SCE's *Clean Power and Electrification Pathway* (CPEP) white paper builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation of the goals presented in the 2023 IEPR.

Additionally, the Project will comply with the applicable Title 24 standards which would ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary. As such, development of the proposed Project would support the goals presented in the 2023 IEPR.

Consistency with IEPR supports decreasing overall per capita energy consumption, decreased reliance on fossil fuels and increased reliance on renewable energy sources, consistent with State CEQA Guidelines Appendix F.

CONSISTENCY WITH STATE OF CALIFORNIA ENERGY PLAN

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access and takes advantage of existing infrastructure systems. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with or obstruct, implementation of the State of California Energy Plan.

Consistency with the State of California Energy Plan IEPR supports decreasing overall per capita energy consumption and reliance on fossil fuels, consistent with State CEQA Guidelines Appendix F as workers and customers traveling to and from the site can use public transportation which would decrease fuel and overall VMT.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

The 2022 version of Title 24 was adopted by the CEC and became effective on January 1, 2023. The proposed Project would be required to comply with the Title 24 standards in place at the time plan check submittals are made. Therefore, the Project is would not result in a significant impact on energy resources (36). The proposed Project would be subject to Title 24 standards.

Consistency with Title 24 standards support decreasing overall per capita energy consumption, decreased reliance on fossil fuels and increased reliance on renewable energy sources consistent with State CEQA Guidelines Appendix F as the Project would be required to incorporate energy efficiency standards as discussed in Section 3.2.3 of this report, which would be verified through the City plan check process.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 11, CALGREEN

As previously stated, CCR, Title 24, Part 11: CALGreen is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2009, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that were published on July 1, 2022, and became effective on January

1, 2023. The Project would be required to comply with the applicable standards in place at the time plan check submittals are made.

Consistency with Title 24 standards support decreasing overall per capita energy consumption, decreased reliance on fossil fuels and increased reliance on renewable energy sources consistent with State CEQA Guidelines Appendix F as the Project would need to incorporate energy efficiency standards as discussed in Section 3.2.3 of this report.

CONSISTENCY WITH AB 1493

AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.

This would also ensure consistency with State CEQA Guidelines Appendix F as the project would interfere with implementation of AB 1493, therefore, decreasing reliance on fossil fuels.

CONSISTENCY WITH RPS

California's RPS is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.

This would also ensure consistency with State CEQA Guidelines Appendix F as the project would not interfere with implementation of the RPS, therefore, increasing reliance on renewable energy sources.

CONSISTENCY WITH SB 350

The proposed Project would use energy from SCE, which has committed to diversify their portfolio of energy sources by increasing energy from wind and solar sources. No feature of the Project would interfere with implementation of SB 350. Additionally, the Project would be designed and constructed to implement the energy efficiency measures for new commercial and industrial developments and would include several measures designed to reduce energy consumption.

This would also ensure consistency with State CEQA Guidelines Appendix F as the project would not interfere with implementation of the SB350, therefore, increasing reliance on renewable energy sources.

As shown above, the Project would not conflict with any of the state or local plans. As such, a less than significant impact is expected.

CONSISTENCY WITH CEQA APPENDIX F

As supported in the preceding sections, the Project would achieve the goals of energy conservation as identified in Appendix F of the *State CEQA Guidelines.* The Project would decrease overall per capita energy consumption by being consistent with the ISTEA, TEA-21, 2023 IEPR, State of California Energy Plan, and Title 24 Standards. The Project would decrease reliance on fossil fuels such as coal, natural gas and oil by being consistent with the ISTEA, TEA-21, 2023

IEPR, State of California Energy Plan, Title 24 Standards and AB 1493. The Project would increase reliance on renewable energy sources by being consistent with the 2023 IEPR, Title 24 Standards, RPS and SB 350.

Additionally, pursuant to mitigation measures MMs AQ-1 – AQ-17 and GHG-1 and GHG-2 and the City of Perris GNG policies, the Project would further decrease overall per capita energy consumption, decrease reliance on fossil fuels such as coal, natural gas and oil and increase reliance on renewable energy source. Specifically, mitigation measures MMs AQ-1 and MM AQ-11 would incorporate passive heating and cooling through natural light and solar-reflective cool pavement such as concrete therefore, reducing the need of natural gas for heating and electricity for cooling which would decrease overall per capita energy consumption and decrease reliance on fossil fuels. Mitigation measures MMs AQ-2, MM AQ-5, and MM AQ-7 center around the utilization of electric equipment such as the usage of electric landscaping equipment, electric truck charging, Tier 4 generators, electric service yard trucks with charging stations provided, which would all decrease overall per capita energy consumption and decrease reliance on fossil fuels. Mitigation measures MMs AQ-3, MM AQ-4, MM AQ-9, MM AQ-10, MM AQ-13, and MM AQ-14 – MM AQ-16 MM revolve around utilizing newer more efficient truck fleets, installing loading dock compatible with SmartWay Trucks, reduction in VMT by increasing efficiency of on-site circulation through signs and paintings, reducing VMT and idling by installing truck operator lounges with clean amenities such as restrooms, vending machines, television and air conditioning, weather proof signs that identify applicable CARB anti-idling regulations and mandating operators monitor and ensure compliance with all current air quality regulations. Additionally, the incorporation of a SCAQMD Rule 2202, TDM plan, providing information to tenants and subsequent employees and truck drivers on energy efficiency, solid waste reduction and other health related items would further decrease overall per capita energy consumption and decrease reliance on fossil fuels.

Mitigation measures MM GHG-1 and MM GHG-2 which incorporate water conservation strategies that reduce energy usage and increase efficiency, and 2023 LEED Silver certification standards that would decrease overall per capita energy consumption and decrease reliance on fossil fuels.

The City of Perris GNG policy 2.1e mandates electric on-site equipment which would eliminate the need for fossil fuel powered on-site equipment that utilize natural gas or diesel and policy 2.7 mandates building larger than 400,000 SF to install solar panels so 100% of the power supplied to the office area. Both of the aforementioned GNG policies would decrease overall per capita energy consumption, decrease reliance on fossil fuels such as coal, natural gas and oil and increase reliance on renewable energy sources.

As such, based on the preceding discussion and supporting evidence, a less than significant impact is expected with respect to CEQA Guidelines Appendix F criteria.

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7 CERTIFICATIONS

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Harvest Landing Specific Plan. The information contained in this energy analysis report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Professionals
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – OFF-SITE

15605-Harvest Landing Off-Site Utility Construction Without Mitigation 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

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2026) - Unmitigated

3.3. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

3.5. Linear, Paving (2026) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Off-Site Utility Construction Without Mitigation
Construction Start Date	1/5/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Road Construction	1.85	Mile	18.8	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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.69	3.11	25.4	31.2	0.06	1.09	1.33	2.41	1.00	0.21	1.21	—	7,004	7,004	0.27	0.08	0.05	7,033
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.28	2.31	2.89	0.01	0.10	0.12	0.21	0.09	0.02	0.11	—	641	641	0.02	0.01	0.08	644
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	0.05	0.42	0.53	< 0.005	0.02	0.02	0.04	0.02	< 0.005	0.02	—	106	106	< 0.005	< 0.005	0.01	107

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.69	3.11	25.4	31.2	0.06	1.09	1.33	2.41	1.00	0.21	1.21	—	7,004	7,004	0.27	0.08	0.05	7,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.33	0.28	2.31	2.89	0.01	0.10	0.12	0.21	0.09	0.02	0.11	—	641	641	0.02	0.01	0.08	644
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.06	0.05	0.42	0.53	< 0.005	0.02	0.02	0.04	0.02	< 0.005	0.02	—	106	106	< 0.005	< 0.005	0.01	107

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (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	3.52	2.96	25.2	29.1	0.06	1.09	—	1.09	1.00	—	1.00	—	6,495	6,495	0.26	0.05	—	6,517
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.31	1.51	< 0.005	0.06	—	0.06	0.05	—	0.05	—	338	338	0.01	< 0.005	—	339

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	< 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	0.03	0.03	0.24	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.0	56.0	< 0.005	< 0.005	—	56.2
Dust From Material Movement	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.16	2.04	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	476	476	0.01	0.02	0.05	481
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	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.1	25.1	< 0.005	< 0.005	0.04	25.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
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	< 0.005	< 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

3.3. Linear, Drainage, Utilities, & Sub-Grade (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	2.85	2.39	21.2	23.3	0.05	0.83	—	0.83	0.76	—	0.76	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.75	0.83	< 0.005	0.03	—	0.03	0.03	—	0.03	—	203	203	0.01	< 0.005	—	203
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 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	0.02	0.02	0.14	0.15	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	33.6	33.6	< 0.005	< 0.005	—	33.7
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	0.15	0.13	0.14	1.77	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	412	412	0.01	0.02	0.04	417
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	0.02	0.02	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	0.02	15.1
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	< 0.005	2.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Linear, 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	1.00	0.84	7.37	10.8	0.01	0.30	—	0.30	0.28	—	0.28	—	1,619	1,619	0.07	0.01	—	1,625
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.8	48.8	< 0.005	< 0.005	—	49.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.11	0.10	0.11	1.36	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321
Vendor	0.00	0.00	0.00	0.00	0.00	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	—	9.68	9.68	< 0.005	< 0.005	0.02	9.81
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	—	1.60	1.60	< 0.005	< 0.005	< 0.005	1.62
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	1/5/2026	1/29/2026	5.00	19.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	1/30/2026	2/17/2026	5.00	13.0	—
Linear, Paving	Linear, Paving	2/18/2026	3/4/2026	5.00	11.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41

Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	37.5	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	32.5	18.5	LDA,LDT1,LDT2

Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	25.0	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	—	18.8	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	18.8	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	18.8	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	264	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6

AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8

Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5

Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted and based on grading phase of Phase 1 Construction
Construction: Off-Road Equipment	Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113

15605-Harvest Landing Off-Site Utility Construction 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

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2026) - Unmitigated

3.3. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

3.5. Linear, Paving (2026) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Off-Site Utility Construction
Construction Start Date	1/5/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Road Construction	1.85	Mile	18.8	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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	1.43	21.8	39.7	0.06	0.26	1.33	1.58	0.24	0.21	0.45	—	7,004	7,004	0.27	0.08	0.05	7,033
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.14	2.00	3.65	0.01	0.03	0.12	0.14	0.03	0.02	0.04	—	641	641	0.02	0.01	0.08	644
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.03	0.37	0.67	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	0.01	—	106	106	< 0.005	< 0.005	0.01	107

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.55	1.43	21.8	39.7	0.06	0.26	1.33	1.58	0.24	0.21	0.45	—	7,004	7,004	0.27	0.08	0.05	7,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.15	0.14	2.00	3.65	0.01	0.03	0.12	0.14	0.03	0.02	0.04	—	641	641	0.02	0.01	0.08	644
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03	0.03	0.37	0.67	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	0.01	—	106	106	< 0.005	< 0.005	0.01	107

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (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	1.38	1.28	21.6	37.6	0.06	0.26	—	0.26	0.24	—	0.24	—	6,495	6,495	0.26	0.05	—	6,517
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.12	1.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	338	338	0.01	< 0.005	—	339

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.20	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.0	56.0	< 0.005	< 0.005	—	56.2
Dust From Material Movement	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.16	2.04	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	476	476	0.01	0.02	0.05	481
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	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.1	25.1	< 0.005	< 0.005	0.04	25.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
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	< 0.005	< 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

3.3. Linear, Drainage, Utilities, & Sub-Grade (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	1.26	1.15	17.9	31.6	0.05	0.26	—	0.26	0.24	—	0.24	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.64	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	203	203	0.01	< 0.005	—	203
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.6	33.6	< 0.005	< 0.005	—	33.7
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	0.15	0.13	0.14	1.77	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	412	412	0.01	0.02	0.04	417
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	0.02	0.02	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	0.02	15.1
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	< 0.005	2.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Linear, 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	0.65	0.57	7.48	11.3	0.01	0.13	—	0.13	0.13	—	0.13	—	1,619	1,619	0.07	0.01	—	1,625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.8	48.8	< 0.005	< 0.005	—	49.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.11	0.10	0.11	1.36	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321
Vendor	0.00	0.00	0.00	0.00	0.00	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	—	9.68	9.68	< 0.005	< 0.005	0.02	9.81
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	—	1.60	1.60	< 0.005	< 0.005	< 0.005	1.62
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	1/5/2026	1/29/2026	5.00	19.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	1/30/2026	2/17/2026	5.00	13.0	—
Linear, Paving	Linear, Paving	2/18/2026	3/4/2026	5.00	11.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 4 Interim	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Tier 4 Interim	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Tier 4 Interim	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41

Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 4 Interim	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 4 Interim	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Tier 4 Interim	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	3.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	37.5	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	32.5	18.5	LDA,LDT1,LDT2

Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	25.0	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grading & Excavation	—	—	18.8	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	18.8	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	18.8	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	264	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6

AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8

Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5

Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted and based on grading phase of Phase 1 Construction
Construction: Off-Road Equipment	Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113

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APPENDIX 4.2:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – PHASE 1

15605-Harvest Landing Construction (Phase 1) Without Mitigation 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

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

3.3. Site Preparation (2025) - Unmitigated

3.5. Site Preparation (2026) - Unmitigated

3.7. Grading (2026) - Unmitigated

3.9. Building Construction (2026) - Unmitigated

3.11. Paving (2026) - Unmitigated

3.13. Architectural Coating (2026) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Construction (Phase 1) Without Mitigation
Construction Start Date	11/3/2025
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	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.	80.9	77.7	126	237	0.31	4.67	17.0	21.6	4.31	4.07	8.38	—	49,110	49,110	1.88	1.92	73.7	49,802
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	80.6	77.4	271	217	0.91	9.85	38.7	48.5	9.18	12.1	21.3	—	120,575	120,575	3.16	12.9	4.34	124,510
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.2	47.6	106	152	0.29	3.89	14.4	18.3	3.60	3.80	7.40	—	42,152	42,152	1.21	2.65	27.0	42,999
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.15	8.69	19.4	27.8	0.05	0.71	2.63	3.34	0.66	0.69	1.35	—	6,979	6,979	0.20	0.44	4.46	7,119

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	80.9	77.7	126	237	0.31	4.67	17.0	21.6	4.31	4.07	8.38	—	49,110	49,110	1.88	1.92	73.7	49,802
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	74.2	72.8	75.8	139	0.11	3.87	12.0	15.8	3.56	5.53	9.09	—	12,122	12,122	0.48	0.56	0.24	12,194
2026	80.6	77.4	271	217	0.91	9.85	38.7	48.5	9.18	12.1	21.3	—	120,575	120,575	3.16	12.9	4.34	124,510
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.10	5.93	6.94	13.4	0.01	0.39	0.75	1.15	0.35	0.28	0.63	—	1,312	1,312	0.05	0.05	0.37	1,329

2026	50.2	47.6	106	152	0.29	3.89	14.4	18.3	3.60	3.80	7.40	—	42,152	42,152	1.21	2.65	27.0	42,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.11	1.08	1.27	2.45	< 0.005	0.07	0.14	0.21	0.06	0.05	0.11	—	217	217	0.01	0.01	0.06	220
2026	9.15	8.69	19.4	27.8	0.05	0.71	2.63	3.34	0.66	0.69	1.35	—	6,979	6,979	0.20	0.44	4.46	7,119

3. Construction Emissions Details

3.1. Demolition (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	73.9	72.6	46.1	136	0.07	3.01	—	3.01	2.58	—	2.58	—	7,006	7,006	0.28	0.06	—	7,030
Demolition	—	—	—	—	—	—	2.14	2.14	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	5.67	5.57	3.54	10.4	0.01	0.23	—	0.23	0.20	—	0.20	—	537	537	0.02	< 0.005	—	539
Demolition	—	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	1.02	0.65	1.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	89.0	89.0	< 0.005	< 0.005	—	89.3
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	0.17	0.15	0.17	2.04	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	453	453	0.02	0.02	0.05	459
Vendor	0.04	0.02	1.16	0.35	0.01	0.01	0.28	0.30	0.01	0.08	0.09	—	1,010	1,010	0.02	0.15	0.07	1,057
Hauling	0.08	0.03	2.39	0.53	0.01	0.04	0.56	0.60	0.04	0.16	0.20	—	2,129	2,129	0.04	0.33	0.12	2,230
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.2	35.2	< 0.005	< 0.005	0.06	35.7
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	77.5	77.5	< 0.005	0.01	0.10	81.1
Hauling	0.01	< 0.005	0.19	0.04	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	—	163	163	< 0.005	0.03	0.15	171
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	0.01	5.92
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.02	13.4
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.0	27.0	< 0.005	< 0.005	0.02	28.3

3.3. 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	9.64	8.10	74.9	64.9	0.10	3.86	—	3.86	3.55	—	3.55	—	11,057	11,057	0.45	0.09	—	11,095
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.40	0.33	3.08	2.67	< 0.005	0.16	—	0.16	0.15	—	0.15	—	454	454	0.02	< 0.005	—	456
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	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	0.07	0.06	0.56	0.49	< 0.005	0.03	—	0.03	0.03	—	0.03	—	75.2	75.2	< 0.005	< 0.005	—	75.5

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	0.17	0.15	0.17	2.04	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	453	453	0.02	0.02	0.05	459
Vendor	0.03	0.01	0.70	0.21	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	612	612	0.01	0.09	0.05	640
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	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.03	19.1
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.03	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	0.01	3.17
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.16	4.16	< 0.005	< 0.005	0.01	4.36
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. 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 Equipment	9.12	7.66	69.2	62.0	0.10	3.53	—	3.53	3.25	—	3.25	—	11,063	11,063	0.45	0.09	—	11,101
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.03	0.27	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.3	43.3	< 0.005	< 0.005	—	43.4
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.17	7.17	< 0.005	< 0.005	—	7.19
Dust From Material Movement	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.15	1.91	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	444	444	0.01	0.02	0.04	449
Vendor	0.03	0.01	0.67	0.20	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	631
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.78
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.47
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	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
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. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	24.3	20.4	181	174	0.38	8.33	—	8.33	7.66	—	7.66	—	40,677	40,677	1.65	0.33	—	40,816
Dust From Material Movement	—	—	—	—	—	—	16.1	16.1	—	5.90	5.90	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	2.86	2.41	21.3	20.5	0.04	0.98	—	0.98	0.90	—	0.90	—	4,792	4,792	0.19	0.04	—	4,809
Dust From Material Movement	—	—	—	—	—	—	1.90	1.90	—	0.69	0.69	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.52	0.44	3.89	3.75	0.01	0.18	—	0.18	0.16	—	0.16	—	793	793	0.03	0.01	—	796
Dust From Material Movement	—	—	—	—	—	—	0.35	0.35	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.49	0.54	6.67	0.00	0.00	1.60	1.60	0.00	0.38	0.38	—	1,553	1,553	0.02	0.06	0.15	1,572
Vendor	0.07	0.03	1.71	0.52	0.01	0.02	0.44	0.46	0.02	0.12	0.14	—	1,536	1,536	0.03	0.24	0.11	1,608
Hauling	3.17	1.15	88.0	21.1	0.52	1.50	20.5	22.0	1.50	5.75	7.25	—	76,809	76,809	1.45	12.3	4.08	80,514
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.82	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	185	185	< 0.005	0.01	0.29	188
Vendor	0.01	< 0.005	0.20	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	181	181	< 0.005	0.03	0.21	190
Hauling	0.38	0.14	10.4	2.46	0.06	0.18	2.41	2.58	0.18	0.68	0.85	—	9,046	9,046	0.17	1.45	8.00	9,490
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.7	30.7	< 0.005	< 0.005	0.05	31.1
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.04	31.4
Hauling	0.07	0.03	1.90	0.45	0.01	0.03	0.44	0.47	0.03	0.12	0.16	—	1,498	1,498	0.03	0.24	1.32	1,571

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.28	6.93	64.0	84.4	0.15	2.46	—	2.46	2.26	—	2.26	—	15,779	15,779	0.64	0.13	—	15,833
Onsite truck	0.00	0.00	0.00	0.00	0.00	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-Roa Equipment	8.28	6.93	64.0	84.4	0.15	2.46	—	2.46	2.26	—	2.26	—	15,779	15,779	0.64	0.13	—	15,833
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	4.81	4.03	37.2	49.0	0.09	1.43	—	1.43	1.31	—	1.31	—	9,165	9,165	0.37	0.07	—	9,196
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.88	0.73	6.79	8.95	0.02	0.26	—	0.26	0.24	—	0.24	—	1,517	1,517	0.06	0.01	—	1,523
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	4.10	3.68	3.42	62.5	0.00	0.00	11.4	11.4	0.00	2.67	2.67	—	12,002	12,002	0.51	0.41	40.7	12,178
Vendor	0.35	0.16	8.07	2.50	0.06	0.11	2.15	2.26	0.11	0.59	0.71	—	7,556	7,556	0.17	1.17	20.7	7,928
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.90	3.47	3.81	47.4	0.00	0.00	11.4	11.4	0.00	2.67	2.67	—	11,036	11,036	0.17	0.43	1.06	11,170
Vendor	0.34	0.15	8.42	2.57	0.06	0.11	2.15	2.26	0.11	0.59	0.71	—	7,561	7,561	0.17	1.17	0.54	7,914
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.26	2.01	2.42	28.8	0.00	0.00	6.57	6.57	0.00	1.54	1.54	—	6,491	6,491	0.10	0.25	10.2	6,579
Vendor	0.19	0.09	4.91	1.47	0.03	0.07	1.24	1.31	0.07	0.34	0.41	—	4,390	4,390	0.10	0.68	5.16	4,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.37	0.44	5.26	0.00	0.00	1.20	1.20	0.00	0.28	0.28	—	1,075	1,075	0.02	0.04	1.69	1,089
Vendor	0.04	0.02	0.90	0.27	0.01	0.01	0.23	0.24	0.01	0.06	0.07	—	727	727	0.02	0.11	0.85	761
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.43	4.57	42.7	59.6	0.08	1.92	—	1.92	1.77	—	1.77	—	9,064	9,064	0.37	0.07	—	9,095
Paving	2.30	2.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	5.43	4.57	42.7	59.6	0.08	1.92	—	1.92	1.77	—	1.77	—	9,064	9,064	0.37	0.07	—	9,095
Paving	2.30	2.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	3.16	2.65	24.8	34.6	0.05	1.11	—	1.11	1.03	—	1.03	—	5,264	5,264	0.21	0.04	—	5,282
Paving	1.33	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.58	0.48	4.53	6.32	0.01	0.20	—	0.20	0.19	—	0.19	—	872	872	0.04	0.01	—	875
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.42	0.38	0.35	6.46	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,241	1,241	0.05	0.04	4.20	1,259
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	0.40	0.36	0.39	4.90	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,141	1,141	0.02	0.04	0.11	1,155
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	0.23	0.21	0.25	2.98	0.00	0.00	0.68	0.68	0.00	0.16	0.16	—	671	671	0.01	0.03	1.05	680
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.54	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	111	111	< 0.005	< 0.005	0.17	113
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.96	6.85	9.06	0.01	0.19	—	0.19	0.17	—	0.17	—	1,068	1,068	0.04	0.01	—	1,072
Architectural Coatings	58.0	58.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.96	6.85	9.06	0.01	0.19	—	0.19	0.17	—	0.17	—	1,068	1,068	0.04	0.01	—	1,072
Architectural Coatings	58.0	58.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.56	3.98	5.26	0.01	0.11	—	0.11	0.10	—	0.10	—	620	620	0.03	0.01	—	622
Architectural Coatings	33.7	33.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.73	0.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Architectural Coatings	6.15	6.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.74	0.68	12.5	0.00	0.00	2.28	2.28	0.00	0.53	0.53	—	2,400	2,400	0.10	0.08	8.13	2,436
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	0.78	0.69	0.76	9.48	0.00	0.00	2.28	2.28	0.00	0.53	0.53	—	2,207	2,207	0.03	0.09	0.21	2,234

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	0.45	0.40	0.48	5.76	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,298	1,298	0.02	0.05	2.04	1,316
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.05	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.34	218
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

4.10. 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
Demolition	Demolition	11/3/2025	12/10/2025	5.00	28.0	—
Site Preparation	Site Preparation	12/11/2025	1/2/2026	5.00	17.0	—
Grading	Grading	1/5/2026	3/4/2026	5.00	43.0	—

Building Construction	Building Construction	3/5/2026	12/25/2026	5.00	212	—
Paving	Paving	3/5/2026	12/25/2026	5.00	212	—
Architectural Coating	Architectural Coating	3/5/2026	12/25/2026	5.00	212	—

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	Rubber Tired Dozers	Diesel	Average	4.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	6.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	8.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Average	6.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	8.00	8.00	87.0	0.43
Grading	Graders	Diesel	Average	6.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	12.0	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Average	12.0	8.00	87.0	0.43
Grading	Scrapers	Diesel	Average	12.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	6.00	8.00	367	0.40
Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Building Construction	Forklifts	Diesel	Average	18.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	6.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	6.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	6.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	18.0	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	12.0	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Average	12.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	12.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	35.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	33.0	10.2	HHDT,MHDT
Demolition	Hauling	24.8	25.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	35.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	20.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	123	18.5	LDA,LDT1,LDT2
Grading	Vendor	51.0	10.2	HHDT,MHDT
Grading	Hauling	1,134	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	870	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	251	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	90.0	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	174	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,249,471	1,083,157	485,764

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,779	—
Site Preparation	—	—	119	0.00	—
Grading	390,000	—	1,032	0.00	—

Paving	0.00	0.00	0.00	0.00	186

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Industrial Park	0.00	0%
Medical Office Building	0.00	0%
Supermarket	0.00	0%
Regional Shopping Center	0.00	0%
Supermarket	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Gasoline/Service Station	0.00	0%
Parking Lot	25.8	100%
Other Asphalt Surfaces	160	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	532	0.03	< 0.005

2025	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00

Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062

Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0

Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults

Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased based on input from the applicant and general contractor. Bore/Drill Rigs added to Grading to account for water well construction that will be located within outdoor open space area southeast of the Barrett and Orange Avenue Intersection
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Information was sent to and verified by the Project applicant and general contractor. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Construction: Dust From Material Movement	—

15605-Harvest Landing Construction (Phase 1) With Mitigation 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

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

3.3. Site Preparation (2025) - Unmitigated

3.5. Site Preparation (2026) - Unmitigated

3.7. Grading (2026) - Unmitigated

3.9. Building Construction (2026) - Unmitigated

3.11. Paving (2026) - Unmitigated

3.13. Architectural Coating (2026) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Construction (Phase 1) With Mitigation
Construction Start Date	11/3/2025
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	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.	36.1	34.5	119	255	0.31	1.55	17.0	18.5	1.46	4.07	5.53	—	49,110	49,110	1.88	1.92	73.7	49,802
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.3	69.6	208	248	0.91	2.54	38.7	41.2	2.52	12.1	14.7	—	120,575	120,575	3.16	12.9	4.34	124,510
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.0	20.8	94.8	168	0.29	1.20	14.4	15.6	1.15	3.80	4.95	—	42,152	42,152	1.21	2.65	27.0	42,999
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.01	3.79	17.3	30.6	0.05	0.22	2.63	2.85	0.21	0.69	0.90	—	6,979	6,979	0.20	0.44	4.46	7,119

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	36.1	34.5	119	255	0.31	1.55	17.0	18.5	1.46	4.07	5.53	—	49,110	49,110	1.88	1.92	73.7	49,802
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	70.3	69.6	32.3	136	0.11	1.57	12.0	12.2	1.27	5.53	5.74	—	12,122	12,122	0.48	0.56	0.24	12,194
2026	35.8	34.2	208	248	0.91	2.54	38.7	41.2	2.52	12.1	14.7	—	120,575	120,575	3.16	12.9	4.34	124,510
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	5.46	5.40	3.39	13.0	0.01	0.13	0.75	0.88	0.11	0.28	0.38	—	1,312	1,312	0.05	0.05	0.37	1,329

2026	22.0	20.8	94.8	168	0.29	1.20	14.4	15.6	1.15	3.80	4.95	—	42,152	42,152	1.21	2.65	27.0	42,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.00	0.99	0.62	2.37	< 0.005	0.02	0.14	0.16	0.02	0.05	0.07	—	217	217	0.01	0.01	0.06	220
2026	4.01	3.79	17.3	30.6	0.05	0.22	2.63	2.85	0.21	0.69	0.90	—	6,979	6,979	0.20	0.44	4.46	7,119

3. Construction Emissions Details

3.1. Demolition (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	70.0	69.4	23.1	133	0.07	1.52	—	1.52	1.21	—	1.21	—	7,006	7,006	0.28	0.06	—	7,030
Demolition	—	—	—	—	—	—	2.14	2.14	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	5.37	5.32	1.78	10.2	0.01	0.12	—	0.12	0.09	—	0.09	—	537	537	0.02	< 0.005	—	539
Demolition	—	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.97	0.32	1.86	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.0	89.0	< 0.005	< 0.005	—	89.3
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	0.17	0.15	0.17	2.04	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	453	453	0.02	0.02	0.05	459
Vendor	0.04	0.02	1.16	0.35	0.01	0.01	0.28	0.30	0.01	0.08	0.09	—	1,010	1,010	0.02	0.15	0.07	1,057
Hauling	0.08	0.03	2.39	0.53	0.01	0.04	0.56	0.60	0.04	0.16	0.20	—	2,129	2,129	0.04	0.33	0.12	2,230
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.2	35.2	< 0.005	< 0.005	0.06	35.7
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	77.5	77.5	< 0.005	0.01	0.10	81.1
Hauling	0.01	< 0.005	0.19	0.04	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	—	163	163	< 0.005	0.03	0.15	171
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	0.01	5.92
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.02	13.4
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.0	27.0	< 0.005	< 0.005	0.02	28.3

3.3. 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	1.35	1.35	31.4	59.9	0.10	0.21	—	0.21	0.21	—	0.21	—	11,057	11,057	0.45	0.09	—	11,095
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.06	1.29	2.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	454	454	0.02	< 0.005	—	456
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	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	0.01	0.01	0.24	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.2	75.2	< 0.005	< 0.005	—	75.5

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	0.17	0.15	0.17	2.04	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	453	453	0.02	0.02	0.05	459
Vendor	0.03	0.01	0.70	0.21	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	612	612	0.01	0.09	0.05	640
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	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.03	19.1
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.03	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	0.01	3.17
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.16	4.16	< 0.005	< 0.005	0.01	4.36
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. 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 Equipment	1.35	1.35	31.4	59.9	0.10	0.21	—	0.21	0.21	—	0.21	—	11,063	11,063	0.45	0.09	—	11,101
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.3	43.3	< 0.005	< 0.005	—	43.4
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.17	7.17	< 0.005	< 0.005	—	7.19
Dust From Material Movement	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.15	1.91	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	444	444	0.01	0.02	0.04	449
Vendor	0.03	0.01	0.67	0.20	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	631
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.78
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.47
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	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
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. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	6.07	5.85	118	220	0.38	1.02	—	1.02	1.00	—	1.00	—	40,677	40,677	1.65	0.33	—	40,816
Dust From Material Movement	—	—	—	—	—	—	16.1	16.1	—	5.90	5.90	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.72	0.69	13.9	25.9	0.04	0.12	—	0.12	0.12	—	0.12	—	4,792	4,792	0.19	0.04	—	4,809
Dust From Material Movement	—	—	—	—	—	—	1.90	1.90	—	0.69	0.69	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	2.53	4.73	0.01	0.02	—	0.02	0.02	—	0.02	—	793	793	0.03	0.01	—	796
Dust From Material Movement	—	—	—	—	—	—	0.35	0.35	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.49	0.54	6.67	0.00	0.00	1.60	1.60	0.00	0.38	0.38	—	1,553	1,553	0.02	0.06	0.15	1,572
Vendor	0.07	0.03	1.71	0.52	0.01	0.02	0.44	0.46	0.02	0.12	0.14	—	1,536	1,536	0.03	0.24	0.11	1,608
Hauling	3.17	1.15	88.0	21.1	0.52	1.50	20.5	22.0	1.50	5.75	7.25	—	76,809	76,809	1.45	12.3	4.08	80,514
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.82	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	185	185	< 0.005	0.01	0.29	188
Vendor	0.01	< 0.005	0.20	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	181	181	< 0.005	0.03	0.21	190
Hauling	0.38	0.14	10.4	2.46	0.06	0.18	2.41	2.58	0.18	0.68	0.85	—	9,046	9,046	0.17	1.45	8.00	9,490
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.7	30.7	< 0.005	< 0.005	0.05	31.1
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.04	31.4
Hauling	0.07	0.03	1.90	0.45	0.01	0.03	0.44	0.47	0.03	0.12	0.16	—	1,498	1,498	0.03	0.24	1.32	1,571

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.83	3.49	59.5	98.0	0.15	0.66	—	0.66	0.63	—	0.63	—	15,779	15,779	0.64	0.13	—	15,833
Onsite truck	0.00	0.00	0.00	0.00	0.00	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-Roa Equipment	3.83	3.49	59.5	98.0	0.15	0.66	—	0.66	0.63	—	0.63	—	15,779	15,779	0.64	0.13	—	15,833
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	2.22	2.03	34.6	56.9	0.09	0.39	—	0.39	0.37	—	0.37	—	9,165	9,165	0.37	0.07	—	9,196
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.41	0.37	6.31	10.4	0.02	0.07	—	0.07	0.07	—	0.07	—	1,517	1,517	0.06	0.01	—	1,523
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	4.10	3.68	3.42	62.5	0.00	0.00	11.4	11.4	0.00	2.67	2.67	—	12,002	12,002	0.51	0.41	40.7	12,178
Vendor	0.35	0.16	8.07	2.50	0.06	0.11	2.15	2.26	0.11	0.59	0.71	—	7,556	7,556	0.17	1.17	20.7	7,928
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.90	3.47	3.81	47.4	0.00	0.00	11.4	11.4	0.00	2.67	2.67	—	11,036	11,036	0.17	0.43	1.06	11,170
Vendor	0.34	0.15	8.42	2.57	0.06	0.11	2.15	2.26	0.11	0.59	0.71	—	7,561	7,561	0.17	1.17	0.54	7,914
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.26	2.01	2.42	28.8	0.00	0.00	6.57	6.57	0.00	1.54	1.54	—	6,491	6,491	0.10	0.25	10.2	6,579
Vendor	0.19	0.09	4.91	1.47	0.03	0.07	1.24	1.31	0.07	0.34	0.41	—	4,390	4,390	0.10	0.68	5.16	4,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.37	0.44	5.26	0.00	0.00	1.20	1.20	0.00	0.28	0.28	—	1,075	1,075	0.02	0.04	1.69	1,089
Vendor	0.04	0.02	0.90	0.27	0.01	0.01	0.23	0.24	0.01	0.06	0.07	—	727	727	0.02	0.11	0.85	761
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.69	40.5	63.6	0.08	0.59	—	0.59	0.55	—	0.55	—	9,064	9,064	0.37	0.07	—	9,095
Paving	2.30	2.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.69	40.5	63.6	0.08	0.59	—	0.59	0.55	—	0.55	—	9,064	9,064	0.37	0.07	—	9,095
Paving	2.30	2.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.73	1.56	23.5	36.9	0.05	0.34	—	0.34	0.32	—	0.32	—	5,264	5,264	0.21	0.04	—	5,282
Paving	1.33	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.32	0.28	4.30	6.74	0.01	0.06	—	0.06	0.06	—	0.06	—	872	872	0.04	0.01	—	875
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.42	0.38	0.35	6.46	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,241	1,241	0.05	0.04	4.20	1,259
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	0.40	0.36	0.39	4.90	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,141	1,141	0.02	0.04	0.11	1,155
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	0.23	0.21	0.25	2.98	0.00	0.00	0.68	0.68	0.00	0.16	0.16	—	671	671	0.01	0.03	1.05	680
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.54	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	111	111	< 0.005	< 0.005	0.17	113
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.96	6.85	9.06	0.01	0.19	—	0.19	0.17	—	0.17	—	1,068	1,068	0.04	0.01	—	1,072
Architectural Coatings	20.1	20.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.16	0.96	6.85	9.06	0.01	0.19	—	0.19	0.17	—	0.17	—	1,068	1,068	0.04	0.01	—	1,072
Architectural Coatings	20.1	20.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.68	0.56	3.98	5.26	0.01	0.11	—	0.11	0.10	—	0.10	—	620	620	0.03	0.01	—	622
Architectural Coatings	11.7	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.73	0.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Architectural Coatings	2.13	2.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.74	0.68	12.5	0.00	0.00	2.28	2.28	0.00	0.53	0.53	—	2,400	2,400	0.10	0.08	8.13	2,436
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	0.78	0.69	0.76	9.48	0.00	0.00	2.28	2.28	0.00	0.53	0.53	—	2,207	2,207	0.03	0.09	0.21	2,234

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	0.45	0.40	0.48	5.76	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,298	1,298	0.02	0.05	2.04	1,316
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.05	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.34	218
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

4.10. 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
Demolition	Demolition	11/3/2025	12/10/2025	5.00	28.0	—
Site Preparation	Site Preparation	12/11/2025	1/2/2026	5.00	17.0	—
Grading	Grading	1/5/2026	3/4/2026	5.00	43.0	—

Building Construction	Building Construction	3/5/2026	12/25/2026	5.00	212	—
Paving	Paving	3/5/2026	12/25/2026	5.00	212	—
Architectural Coating	Architectural Coating	3/5/2026	12/25/2026	5.00	212	—

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	Rubber Tired Dozers	Diesel	Tier 4 Interim	4.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	6.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	8.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	6.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	8.00	8.00	87.0	0.43
Grading	Graders	Diesel	Tier 4 Interim	6.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	12.0	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Interim	12.0	8.00	87.0	0.43
Grading	Scrapers	Diesel	Tier 4 Interim	12.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	6.00	8.00	367	0.40
Grading	Bore/Drill Rigs	Diesel	Tier 4 Interim	1.00	8.00	83.0	0.50
Building Construction	Forklifts	Diesel	Tier 4 Interim	18.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	6.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Interim	6.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	6.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	18.0	8.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Interim	12.0	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Interim	12.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	12.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	6.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	35.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	33.0	10.2	HHDT,MHDT
Demolition	Hauling	24.8	25.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	35.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	20.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	123	18.5	LDA,LDT1,LDT2
Grading	Vendor	51.0	10.2	HHDT,MHDT
Grading	Hauling	1,134	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	870	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	251	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	90.0	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	174	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,249,471	1,083,157	485,764

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,779	—
Site Preparation	—	—	119	0.00	—
Grading	390,000	—	1,032	0.00	—

Paving	0.00	0.00	0.00	0.00	186

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Industrial Park	0.00	0%
Medical Office Building	0.00	0%
Supermarket	0.00	0%
Regional Shopping Center	0.00	0%
Supermarket	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Gasoline/Service Station	0.00	0%
Parking Lot	25.8	100%
Other Asphalt Surfaces	160	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	532	0.03	< 0.005

2025	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00

Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062

Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0

Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults

Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased based on input from the applicant and general contractor. Bore/Drill Rigs added to Grading to account for water well construction that will be located within outdoor open space area southeast of the Barrett and Orange Avenue Intersection Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Information was sent to and verified by the Project applicant and general contractor. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	Per mitigation measures, Project will utilize super-compliant coatings.

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APPENDIX 4.3:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS – PHASE 2

15605-Harvest Landing Construction (Phase 2) Without Mitigation 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

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.3. Demolition (2027) - Unmitigated

3.5. Site Preparation (2027) - Unmitigated

3.7. Site Preparation (2028) - Unmitigated

3.9. Grading (2028) - Unmitigated

3.11. Grading (2029) - Unmitigated

3.13. Building Construction (2029) - Unmitigated

3.15. Building Construction (2030) - Unmitigated

3.17. Paving (2030) - Unmitigated

3.19. Architectural Coating (2030) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Construction (Phase 2) Without Mitigation
Construction Start Date	12/26/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,406,019	—	—	Industrial Park
Industrial Park	348	1000sqft	7.99	348,262	21,788	—	—	Industrial Park (Overlay)

Other Asphalt Surfaces	30.7	Acre	30.7	0.00	0.00	—	—	—
User Defined Industrial	4,008	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	98.5	96.7	67.3	163	0.22	2.60	29.0	30.2	2.41	6.90	7.97	—	42,058	42,058	0.80	2.25	75.4	42,790
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	98.1	96.3	68.0	137	0.22	3.27	29.0	30.2	3.01	6.90	8.67	—	39,966	39,966	0.80	2.25	1.96	40,625
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	60.0	58.8	48.4	96.7	0.14	1.94	20.1	20.9	1.80	4.77	5.49	—	27,896	27,896	0.54	1.51	22.8	28,381
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.0	10.7	8.83	17.6	0.03	0.35	3.67	3.81	0.33	0.87	1.00	—	4,618	4,618	0.09	0.25	3.77	4,699

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.67	4.66	46.0	41.0	0.11	1.69	4.23	5.92	1.56	0.88	2.44	—	13,074	13,074	0.41	0.95	14.8	13,384
2028	8.25	6.69	67.3	62.8	0.22	2.60	9.73	12.3	2.41	3.16	5.57	—	27,446	27,446	0.80	2.25	29.1	28,165
2029	9.19	8.48	63.4	128	0.22	2.43	24.2	25.0	2.25	5.77	6.44	—	34,563	34,563	0.80	2.15	72.6	35,227
2030	98.5	96.7	45.1	163	0.14	1.15	29.0	30.2	1.07	6.90	7.97	—	42,058	42,058	0.74	2.14	75.4	42,790
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.83	4.80	48.0	41.5	0.11	1.78	4.23	6.01	1.65	0.88	2.53	—	13,163	13,163	0.41	1.00	0.42	13,471
2027	8.93	7.47	68.0	63.3	0.12	3.27	12.4	15.7	3.01	5.66	8.67	—	13,719	13,719	0.51	0.96	0.38	13,863
2028	8.69	7.28	67.9	63.1	0.22	3.09	12.4	15.5	2.85	5.66	8.50	—	27,412	27,412	0.80	2.25	0.76	28,103
2029	8.84	7.45	64.0	104	0.22	2.43	24.2	25.0	2.25	5.77	6.44	—	32,813	32,813	0.80	2.15	1.89	33,407
2030	98.1	96.3	46.4	137	0.14	1.15	29.0	30.2	1.07	6.90	7.97	—	39,966	39,966	0.79	2.14	1.96	40,625
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.06	0.56	0.49	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	155	155	< 0.005	0.01	0.08	158
2027	4.62	3.82	36.9	33.0	0.08	1.49	4.46	5.94	1.37	1.47	2.84	—	9,439	9,439	0.31	0.59	3.98	9,627
2028	5.96	4.87	48.4	44.8	0.14	1.94	7.37	9.31	1.80	2.65	4.44	—	17,510	17,510	0.52	1.33	7.49	17,926
2029	6.06	5.03	32.2	63.6	0.11	1.01	13.0	14.1	0.94	3.35	4.29	—	21,881	21,881	0.48	1.45	16.6	22,340
2030	60.0	58.8	31.4	96.7	0.10	0.77	20.1	20.9	0.72	4.77	5.49	—	27,896	27,896	0.54	1.51	22.8	28,381
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.10	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	25.6	25.6	< 0.005	< 0.005	0.01	26.2
2027	0.84	0.70	6.74	6.02	0.01	0.27	0.81	1.08	0.25	0.27	0.52	—	1,563	1,563	0.05	0.10	0.66	1,594
2028	1.09	0.89	8.83	8.17	0.03	0.35	1.35	1.70	0.33	0.48	0.81	—	2,899	2,899	0.09	0.22	1.24	2,968
2029	1.11	0.92	5.87	11.6	0.02	0.18	2.38	2.56	0.17	0.61	0.78	—	3,623	3,623	0.08	0.24	2.75	3,699
2030	11.0	10.7	5.73	17.6	0.02	0.14	3.67	3.81	0.13	0.87	1.00	—	4,618	4,618	0.09	0.25	3.77	4,699

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.45	4.57	41.3	38.0	0.07	1.69	—	1.69	1.55	—	1.55	—	6,853	6,853	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.48	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	80.5	80.5	< 0.005	< 0.005	—	80.7
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.3	13.3	< 0.005	< 0.005	—	13.4
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	0.13	0.12	0.13	1.63	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	380	380	0.01	0.01	0.04	385
Vendor	0.17	0.08	4.22	1.29	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,796	3,796	0.08	0.59	0.27	3,973
Hauling	0.08	0.03	2.36	0.52	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,133	2,133	0.04	0.34	0.11	2,236
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	—	4.52	4.52	< 0.005	< 0.005	0.01	4.58
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.5	44.5	< 0.005	0.01	0.05	46.7
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.38	7.38	< 0.005	< 0.005	0.01	7.73
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	< 0.005	4.35

3.3. Demolition (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	5.28	4.43	39.8	37.3	0.07	1.59	—	1.59	1.46	—	1.46	—	6,854	6,854	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	5.28	4.43	39.8	37.3	0.07	1.59	—	1.59	1.46	—	1.46	—	6,854	6,854	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.84	2.38	21.4	20.1	0.04	0.86	—	0.86	0.79	—	0.79	—	3,688	3,688	0.15	0.03	—	3,701
Demolition	—	—	—	—	—	—	1.18	1.18	—	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	0.52	0.44	3.91	3.66	0.01	0.16	—	0.16	0.14	—	0.14	—	611	611	0.02	< 0.005	—	613

Demoliti	—	—	—	—	—	—	0.21	0.21	—	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	0.14	0.12	0.10	1.99	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.17	0.08	3.89	1.22	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,723	3,723	0.09	0.56	9.48	3,901
Hauling	0.08	0.03	2.20	0.50	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,091	2,091	0.04	0.33	4.05	2,193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	0.01	0.01	0.03	378
Vendor	0.17	0.07	4.07	1.26	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,726	3,726	0.08	0.56	0.25	3,895
Hauling	0.08	0.03	2.31	0.51	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,092	2,092	0.04	0.33	0.11	2,190
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.85	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	204	204	< 0.005	0.01	0.29	206
Vendor	0.09	0.04	2.19	0.67	0.02	0.03	0.58	0.61	0.03	0.16	0.19	—	2,004	2,004	0.05	0.30	2.20	2,097
Hauling	0.04	0.02	1.25	0.27	0.01	0.02	0.31	0.33	0.02	0.09	0.11	—	1,125	1,125	0.02	0.18	0.94	1,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	33.7	33.7	< 0.005	< 0.005	0.05	34.1
Vendor	0.02	0.01	0.40	0.12	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	332	332	0.01	0.05	0.36	347
Hauling	0.01	< 0.005	0.23	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	186	186	< 0.005	0.03	0.16	195

3.5. Site Preparation (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.68	7.29	65.5	60.7	0.10	3.24	—	3.24	2.98	—	2.98	—	11,065	11,065	0.45	0.09	—	11,103
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.53	1.28	11.5	10.7	0.02	0.57	—	0.57	0.52	—	0.52	—	1,949	1,949	0.08	0.02	—	1,956
Dust From Material Movement	—	—	—	—	—	—	1.99	1.99	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.28	0.23	2.11	1.95	< 0.005	0.10	—	0.10	0.10	—	0.10	—	323	323	0.01	< 0.005	—	324
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.17	0.17	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.14	1.76	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	436	436	0.01	0.02	0.04	441
Vendor	0.10	0.04	2.42	0.75	0.02	0.03	0.64	0.68	0.03	0.18	0.21	—	2,218	2,218	0.05	0.33	0.15	2,318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.32	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	77.7	77.7	< 0.005	< 0.005	0.11	78.7
Vendor	0.02	0.01	0.43	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	390	390	0.01	0.06	0.43	409
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	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.02	13.0
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.6	64.6	< 0.005	0.01	0.07	67.6
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

3.7. Site Preparation (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-Roa Equipment	8.46	7.11	63.4	60.7	0.10	3.06	—	3.06	2.81	—	2.81	—	11,068	11,068	0.45	0.09	—	11,106
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.10	9.80	9.39	0.02	0.47	—	0.47	0.43	—	0.43	—	1,711	1,711	0.07	0.01	—	1,717
Dust From Material Movement	—	—	—	—	—	—	1.75	1.75	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.24	0.20	1.79	1.71	< 0.005	0.09	—	0.09	0.08	—	0.08	—	283	283	0.01	< 0.005	—	284
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.14	1.64	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	428	428	0.01	0.02	0.03	433
Vendor	0.10	0.04	2.31	0.73	0.02	0.03	0.64	0.68	0.03	0.18	0.21	—	2,168	2,168	0.04	0.33	0.13	2,268
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	0.27	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.9	66.9	< 0.005	< 0.005	0.09	67.8
Vendor	0.02	0.01	0.36	0.11	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	335	335	0.01	0.05	0.34	351
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.2
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.5	55.5	< 0.005	0.01	0.06	58.1
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. Grading (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.47	6.28	52.9	56.4	0.12	2.36	—	2.36	2.17	—	2.17	—	13,430	13,430	0.54	0.11	—	13,476
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.47	6.28	52.9	56.4	0.12	2.36	—	2.36	2.17	—	2.17	—	13,430	13,430	0.54	0.11	—	13,476
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	29.7	31.7	0.07	1.32	—	1.32	1.22	—	1.22	—	7,543	7,543	0.31	0.06	—	7,569
Dust From Material Movement	—	—	—	—	—	—	3.01	3.01	—	1.10	1.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.77	0.64	5.42	5.78	0.01	0.24	—	0.24	0.22	—	0.22	—	1,249	1,249	0.05	0.01	—	1,253
Dust From Material Movement	—	—	—	—	—	—	0.55	0.55	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.17	0.16	0.14	2.48	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	531	531	0.01	0.02	1.51	539
Vendor	0.26	0.12	5.73	1.85	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,632	5,632	0.09	0.86	13.4	5,905
Hauling	0.35	0.13	8.52	2.11	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,852	7,852	0.15	1.26	14.3	8,245
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.16	1.87	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	489	489	0.01	0.02	0.04	495
Vendor	0.25	0.11	6.00	1.90	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,637	5,637	0.09	0.86	0.35	5,896
Hauling	0.34	0.12	8.88	2.15	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,857	7,857	0.15	1.26	0.37	8,235
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.09	1.11	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	278	278	< 0.005	0.01	0.37	282
Vendor	0.14	0.07	3.39	1.05	0.02	0.05	0.93	0.98	0.05	0.26	0.31	—	3,164	3,164	0.05	0.48	3.23	3,313
Hauling	0.19	0.07	5.02	1.20	0.03	0.09	1.22	1.31	0.09	0.34	0.43	—	4,411	4,411	0.09	0.71	3.46	4,627
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.0	46.0	< 0.005	< 0.005	0.06	46.6
Vendor	0.03	0.01	0.62	0.19	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	524	524	0.01	0.08	0.54	549
Hauling	0.04	0.01	0.92	0.22	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	730	730	0.01	0.12	0.57	766

3.11. Grading (2029) - 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	7.22	6.07	49.4	55.7	0.12	2.18	—	2.18	2.01	—	2.01	—	13,428	13,428	0.54	0.11	—	13,474
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.22	6.07	49.4	55.7	0.12	2.18	—	2.18	2.01	—	2.01	—	13,428	13,428	0.54	0.11	—	13,474
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.76	14.3	16.1	0.04	0.63	—	0.63	0.58	—	0.58	—	3,889	3,889	0.16	0.03	—	3,902
Dust From Material Movement	—	—	—	—	—	—	1.55	1.55	—	0.57	0.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.61	2.95	0.01	0.12	—	0.12	0.11	—	0.11	—	644	644	0.03	0.01	—	646

Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.12	2.31	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.35	529
Vendor	0.26	0.12	5.53	1.80	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,485	5,485	0.09	0.82	11.9	5,743
Hauling	0.35	0.13	8.29	2.07	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,666	7,666	0.15	1.20	13.1	8,041
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.14	1.74	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	480	480	0.01	0.02	0.03	486
Vendor	0.25	0.11	5.76	1.85	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,490	5,490	0.09	0.82	0.31	5,736
Hauling	0.34	0.12	8.65	2.10	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,670	7,670	0.15	1.20	0.34	8,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.53	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	141	141	< 0.005	0.01	0.17	143
Vendor	0.07	0.03	1.68	0.53	0.01	0.03	0.48	0.51	0.03	0.13	0.16	—	1,589	1,589	0.03	0.24	1.49	1,662
Hauling	0.10	0.04	2.52	0.60	0.02	0.05	0.63	0.68	0.05	0.18	0.22	—	2,221	2,221	0.04	0.35	1.64	2,327
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.03	23.6
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	263	263	< 0.005	0.04	0.25	275
Hauling	0.02	0.01	0.46	0.11	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	368	368	0.01	0.06	0.27	385

3.13. Building Construction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.49	2.09	18.6	28.0	0.05	0.60	—	0.60	0.55	—	0.55	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.49	2.09	18.6	28.0	0.05	0.60	—	0.60	0.55	—	0.55	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	0.89	7.88	11.9	0.02	0.25	—	0.25	0.23	—	0.23	—	2,233	2,233	0.09	0.02	—	2,241
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.19	0.16	1.44	2.17	< 0.005	0.05	—	0.05	0.04	—	0.04	—	370	370	0.01	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	6.35	6.23	5.05	97.4	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	21,963	21,963	0.22	0.80	56.6	22,263
Vendor	0.35	0.16	7.40	2.41	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,342	7,342	0.12	1.10	15.9	7,687
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	6.01	5.21	5.81	73.2	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	20,207	20,207	0.26	0.80	1.47	20,453
Vendor	0.34	0.15	7.71	2.47	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,348	7,348	0.12	1.10	0.41	7,678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.55	2.21	2.47	32.9	0.00	0.00	9.29	9.29	0.00	2.18	2.18	—	8,689	8,689	0.11	0.34	10.4	8,803
Vendor	0.15	0.07	3.29	1.04	0.02	0.05	0.94	0.99	0.05	0.26	0.31	—	3,119	3,119	0.05	0.47	2.93	3,262
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	0.47	0.40	0.45	6.00	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,439	1,439	0.02	0.06	1.72	1,457
Vendor	0.03	0.01	0.60	0.19	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	516	516	0.01	0.08	0.49	540
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. Building Construction (2030) - 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 Equipm	2.43	2.03	18.1	28.0	0.05	0.57	—	0.57	0.52	—	0.52	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.03	18.1	28.0	0.05	0.57	—	0.57	0.52	—	0.52	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.73	1.45	13.0	20.0	0.04	0.40	—	0.40	0.37	—	0.37	—	3,756	3,756	0.15	0.03	—	3,769
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.32	0.26	2.37	3.64	0.01	0.07	—	0.07	0.07	—	0.07	—	622	622	0.03	0.01	—	624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.01	5.25	4.32	90.5	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	21,593	21,593	0.22	0.80	50.4	21,887
Vendor	0.35	0.16	7.07	2.36	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,126	7,126	0.12	1.10	14.1	7,470
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	5.75	4.95	5.08	69.0	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	19,870	19,870	0.26	0.80	1.31	20,115
Vendor	0.34	0.15	7.43	2.42	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,132	7,132	0.12	1.10	0.37	7,462
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	4.06	3.49	3.63	51.8	0.00	0.00	15.6	15.6	0.00	3.66	3.66	—	14,371	14,371	0.19	0.57	15.6	14,561
Vendor	0.25	0.11	5.30	1.70	0.04	0.08	1.59	1.67	0.08	0.44	0.52	—	5,092	5,092	0.09	0.78	4.35	5,332
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	0.74	0.64	0.66	9.45	0.00	0.00	2.85	2.85	0.00	0.67	0.67	—	2,379	2,379	0.03	0.09	2.58	2,411
Vendor	0.05	0.02	0.97	0.31	0.01	0.02	0.29	0.30	0.02	0.08	0.10	—	843	843	0.01	0.13	0.72	883
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. Paving (2030) - 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	1.53	1.29	12.6	19.8	0.03	0.44	—	0.44	0.41	—	0.41	—	3,021	3,021	0.12	0.02	—	3,032
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.53	1.29	12.6	19.8	0.03	0.44	—	0.44	0.41	—	0.41	—	3,021	3,021	0.12	0.02	—	3,032
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.92	0.78	7.57	11.9	0.02	0.27	—	0.27	0.24	—	0.24	—	1,821	1,821	0.07	0.01	—	1,827
Paving	0.22	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.38	2.18	< 0.005	0.05	—	0.05	0.04	—	0.04	—	301	301	0.01	< 0.005	—	303
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.61	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	0.90	390
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	1.23	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
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	0.06	0.05	0.05	0.78	0.00	0.00	0.23	0.23	0.00	0.06	0.06	—	216	216	< 0.005	0.01	0.23	219
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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	0.04	36.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2030) - 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	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	86.2	86.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	86.2	86.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.19	0.16	1.26	1.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	215	215	0.01	< 0.005	—	215
Architectural Coatings	51.9	51.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Architectural Coatings	9.48	9.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.20	1.05	0.86	18.1	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	4,319	4,319	0.04	0.16	10.1	4,377
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	1.15	0.99	1.02	13.8	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	3,974	3,974	0.05	0.16	0.26	4,023
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	0.68	0.59	0.61	8.74	0.00	0.00	2.64	2.64	0.00	0.62	0.62	—	2,425	2,425	0.03	0.10	2.63	2,457
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	0.12	0.11	0.11	1.59	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	402	402	0.01	0.02	0.43	407
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

4.10. 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
Demolition	Demolition	12/26/2026	10/2/2027	5.00	200	—
Site Preparation	Site Preparation	10/3/2027	3/19/2028	5.00	120	—
Grading	Grading	3/20/2028	5/28/2029	5.00	310	—
Building Construction	Building Construction	5/29/2029	12/31/2030	5.00	416	—
Paving	Paving	2/27/2030	12/31/2030	5.00	220	—
Architectural Coating	Architectural Coating	2/27/2030	12/31/2030	5.00	220	—

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	2.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	6.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	4.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	6.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	8.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Average	4.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	4.00	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	6.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	4.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	4.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	4.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	126	10.2	HHDT,MHDT
Demolition	Hauling	25.3	25.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	35.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	75.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	195	10.2	HHDT,MHDT
Grading	Hauling	121	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	1,683	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	261	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	30.0	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	337	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	6,011,933	2,003,978	80,133

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	20,246	—
Site Preparation	—	—	840	0.00	—
Grading	300,000	—	2,480	0.00	—
Paving	0.00	0.00	0.00	0.00	30.7

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Industrial Park	0.00	0%
Other Asphalt Surfaces	30.7	100%
User Defined Industrial	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
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005
2029	0.00	532	0.03	< 0.005
2030	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00

Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062

Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0

Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113

15605-Harvest Landing Construction (Phase 2) With Mitigation 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

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.3. Demolition (2027) - Unmitigated

3.5. Site Preparation (2027) - Unmitigated

3.7. Site Preparation (2028) - Unmitigated

3.9. Grading (2028) - Unmitigated

3.11. Grading (2029) - Unmitigated

3.13. Building Construction (2029) - Unmitigated

3.15. Building Construction (2030) - Unmitigated

3.17. Paving (2030) - Unmitigated

3.19. Architectural Coating (2030) - Unmitigated

4. Operations Emissions Details

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

5.18. 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	15605-Harvest Landing Construction (Phase 2) With Mitigation
Construction Start Date	12/26/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,406,019	—	—	Industrial Park
Industrial Park	348	1000sqft	7.99	348,262	21,788	—	—	Industrial Park (Overlay)

Other Asphalt Surfaces	30.7	Acre	30.7	0.00	0.00	—	—	—
User Defined Industrial	4,008	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	29.0	27.7	53.0	169	0.22	0.57	29.0	29.5	0.56	6.90	7.37	—	42,058	42,058	0.80	2.25	75.4	42,790
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.7	27.3	53.7	143	0.22	0.57	29.0	29.5	0.56	6.90	7.37	—	39,966	39,966	0.80	2.25	1.96	40,625
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.1	17.1	35.4	101	0.14	0.36	20.1	20.4	0.35	4.77	5.09	—	27,896	27,896	0.54	1.51	22.8	28,381
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.30	3.12	6.47	18.4	0.03	0.07	3.67	3.73	0.06	0.87	0.93	—	4,618	4,618	0.09	0.25	3.77	4,699

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.06	1.73	27.3	40.4	0.11	0.39	4.23	4.62	0.38	0.88	1.26	—	13,074	13,074	0.41	0.95	14.8	13,384
2028	2.76	2.32	53.0	78.9	0.22	0.57	9.73	10.3	0.56	3.16	3.72	—	27,446	27,446	0.80	2.25	29.1	28,165
2029	7.90	7.50	52.6	132	0.22	0.56	24.2	24.5	0.56	5.77	6.07	—	34,563	34,563	0.80	2.15	72.6	35,227
2030	29.0	27.7	47.4	169	0.14	0.49	29.0	29.5	0.47	6.90	7.37	—	42,058	42,058	0.74	2.14	75.4	42,790
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.11	1.76	28.0	40.2	0.11	0.42	4.23	4.65	0.40	0.88	1.28	—	13,163	13,163	0.41	1.00	0.42	13,471
2027	2.05	1.71	33.9	62.4	0.12	0.39	12.4	12.7	0.38	5.66	5.90	—	13,719	13,719	0.51	0.96	0.38	13,863
2028	2.71	2.29	53.7	78.4	0.22	0.57	12.4	12.7	0.56	5.66	5.90	—	27,412	27,412	0.80	2.25	0.76	28,103
2029	7.56	6.47	53.2	108	0.22	0.56	24.2	24.5	0.56	5.77	6.07	—	32,813	32,813	0.80	2.15	1.89	33,407
2030	28.7	27.3	48.7	143	0.14	0.49	29.0	29.5	0.47	6.90	7.37	—	39,966	39,966	0.79	2.14	1.96	40,625
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.33	0.47	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	155	155	< 0.005	0.01	0.08	158
2027	1.39	1.20	20.9	32.5	0.08	0.25	4.46	4.71	0.24	1.47	1.71	—	9,439	9,439	0.31	0.59	3.98	9,627
2028	1.77	1.53	35.4	53.7	0.14	0.36	7.37	7.73	0.35	2.65	3.00	—	17,510	17,510	0.52	1.33	7.49	17,926
2029	3.99	3.41	29.5	70.4	0.11	0.29	13.0	13.3	0.29	3.35	3.64	—	21,881	21,881	0.48	1.45	16.6	22,340
2030	18.1	17.1	32.9	101	0.10	0.33	20.1	20.4	0.32	4.77	5.09	—	27,896	27,896	0.54	1.51	22.8	28,381
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	< 0.005	< 0.005	0.06	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	0.01	26.2
2027	0.25	0.22	3.81	5.94	0.01	0.05	0.81	0.86	0.04	0.27	0.31	—	1,563	1,563	0.05	0.10	0.66	1,594
2028	0.32	0.28	6.47	9.80	0.03	0.07	1.35	1.41	0.06	0.48	0.55	—	2,899	2,899	0.09	0.22	1.24	2,968
2029	0.73	0.62	5.39	12.8	0.02	0.05	2.38	2.43	0.05	0.61	0.66	—	3,623	3,623	0.08	0.24	2.75	3,699
2030	3.30	3.12	6.01	18.4	0.02	0.06	3.67	3.73	0.06	0.87	0.93	—	4,618	4,618	0.09	0.25	3.77	4,699

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.72	1.54	21.3	36.7	0.07	0.32	—	0.32	0.30	—	0.30	—	6,853	6,853	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.25	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	80.5	80.5	< 0.005	< 0.005	—	80.7
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 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	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.3	13.3	< 0.005	< 0.005	—	13.4
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	0.13	0.12	0.13	1.63	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	380	380	0.01	0.01	0.04	385
Vendor	0.17	0.08	4.22	1.29	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,796	3,796	0.08	0.59	0.27	3,973
Hauling	0.08	0.03	2.36	0.52	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,133	2,133	0.04	0.34	0.11	2,236
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	—	4.52	4.52	< 0.005	< 0.005	0.01	4.58
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.5	44.5	< 0.005	0.01	0.05	46.7
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.76
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.38	7.38	< 0.005	< 0.005	0.01	7.73
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	< 0.005	4.35

3.3. Demolition (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	1.67	1.50	21.1	36.7	0.07	0.29	—	0.29	0.28	—	0.28	—	6,854	6,854	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.67	1.50	21.1	36.7	0.07	0.29	—	0.29	0.28	—	0.28	—	6,854	6,854	0.28	0.06	—	6,877
Demolition	—	—	—	—	—	—	2.19	2.19	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.90	0.81	11.4	19.7	0.04	0.16	—	0.16	0.15	—	0.15	—	3,688	3,688	0.15	0.03	—	3,701
Demolition	—	—	—	—	—	—	1.18	1.18	—	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	0.16	0.15	2.08	3.60	0.01	0.03	—	0.03	0.03	—	0.03	—	611	611	0.02	< 0.005	—	613

Demoliti	—	—	—	—	—	—	0.21	0.21	—	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	0.14	0.12	0.10	1.99	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.17	0.08	3.89	1.22	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,723	3,723	0.09	0.56	9.48	3,901
Hauling	0.08	0.03	2.20	0.50	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,091	2,091	0.04	0.33	4.05	2,193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	0.01	0.01	0.03	378
Vendor	0.17	0.07	4.07	1.26	0.03	0.06	1.08	1.13	0.06	0.30	0.35	—	3,726	3,726	0.08	0.56	0.25	3,895
Hauling	0.08	0.03	2.31	0.51	0.01	0.04	0.57	0.61	0.04	0.16	0.20	—	2,092	2,092	0.04	0.33	0.11	2,190
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.85	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	204	204	< 0.005	0.01	0.29	206
Vendor	0.09	0.04	2.19	0.67	0.02	0.03	0.58	0.61	0.03	0.16	0.19	—	2,004	2,004	0.05	0.30	2.20	2,097
Hauling	0.04	0.02	1.25	0.27	0.01	0.02	0.31	0.33	0.02	0.09	0.11	—	1,125	1,125	0.02	0.18	0.94	1,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	33.7	33.7	< 0.005	< 0.005	0.05	34.1
Vendor	0.02	0.01	0.40	0.12	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	332	332	0.01	0.05	0.36	347
Hauling	0.01	< 0.005	0.23	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	186	186	< 0.005	0.03	0.16	195

3.5. Site Preparation (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.35	31.4	59.9	0.10	0.21	—	0.21	0.21	—	0.21	—	11,065	11,065	0.45	0.09	—	11,103
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.24	0.24	5.53	10.6	0.02	0.04	—	0.04	0.04	—	0.04	—	1,949	1,949	0.08	0.02	—	1,956
Dust From Material Movement	—	—	—	—	—	—	1.99	1.99	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.04	1.01	1.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	323	323	0.01	< 0.005	—	324
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.17	0.17	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.14	1.76	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	436	436	0.01	0.02	0.04	441
Vendor	0.10	0.04	2.42	0.75	0.02	0.03	0.64	0.68	0.03	0.18	0.21	—	2,218	2,218	0.05	0.33	0.15	2,318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.32	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	77.7	77.7	< 0.005	< 0.005	0.11	78.7
Vendor	0.02	0.01	0.43	0.13	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	390	390	0.01	0.06	0.43	409
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	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.02	13.0
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.6	64.6	< 0.005	0.01	0.07	67.6
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

3.7. Site Preparation (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-Roa Equipment	1.35	1.35	31.4	59.9	0.10	0.21	—	0.21	0.21	—	0.21	—	11,068	11,068	0.45	0.09	—	11,106
Dust From Material Movement	—	—	—	—	—	—	11.3	11.3	—	5.37	5.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.21	0.21	4.85	9.26	0.02	0.03	—	0.03	0.03	—	0.03	—	1,711	1,711	0.07	0.01	—	1,717
Dust From Material Movement	—	—	—	—	—	—	1.75	1.75	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.04	0.89	1.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.14	1.64	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	428	428	0.01	0.02	0.03	433
Vendor	0.10	0.04	2.31	0.73	0.02	0.03	0.64	0.68	0.03	0.18	0.21	—	2,168	2,168	0.04	0.33	0.13	2,268
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	0.27	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.9	66.9	< 0.005	< 0.005	0.09	67.8
Vendor	0.02	0.01	0.36	0.11	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	335	335	0.01	0.05	0.34	351
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.2
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.5	55.5	< 0.005	0.01	0.06	58.1
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. Grading (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.97	1.91	38.7	72.5	0.12	0.32	—	0.32	0.31	—	0.31	—	13,430	13,430	0.54	0.11	—	13,476
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.97	1.91	38.7	72.5	0.12	0.32	—	0.32	0.31	—	0.31	—	13,430	13,430	0.54	0.11	—	13,476
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	1.07	21.7	40.7	0.07	0.18	—	0.18	0.18	—	0.18	—	7,543	7,543	0.31	0.06	—	7,569
Dust From Material Movement	—	—	—	—	—	—	3.01	3.01	—	1.10	1.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.20	0.20	3.96	7.43	0.01	0.03	—	0.03	0.03	—	0.03	—	1,249	1,249	0.05	0.01	—	1,253
Dust From Material Movement	—	—	—	—	—	—	0.55	0.55	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.17	0.16	0.14	2.48	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	531	531	0.01	0.02	1.51	539
Vendor	0.26	0.12	5.73	1.85	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,632	5,632	0.09	0.86	13.4	5,905
Hauling	0.35	0.13	8.52	2.11	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,852	7,852	0.15	1.26	14.3	8,245
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.16	1.87	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	489	489	0.01	0.02	0.04	495
Vendor	0.25	0.11	6.00	1.90	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,637	5,637	0.09	0.86	0.35	5,896
Hauling	0.34	0.12	8.88	2.15	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,857	7,857	0.15	1.26	0.37	8,235
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.09	1.11	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	278	278	< 0.005	0.01	0.37	282
Vendor	0.14	0.07	3.39	1.05	0.02	0.05	0.93	0.98	0.05	0.26	0.31	—	3,164	3,164	0.05	0.48	3.23	3,313
Hauling	0.19	0.07	5.02	1.20	0.03	0.09	1.22	1.31	0.09	0.34	0.43	—	4,411	4,411	0.09	0.71	3.46	4,627
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.0	46.0	< 0.005	< 0.005	0.06	46.6
Vendor	0.03	0.01	0.62	0.19	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	524	524	0.01	0.08	0.54	549
Hauling	0.04	0.01	0.92	0.22	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	730	730	0.01	0.12	0.57	766

3.11. Grading (2029) - 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	1.96	1.90	38.6	72.5	0.12	0.31	—	0.31	0.31	—	0.31	—	13,428	13,428	0.54	0.11	—	13,474
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.90	38.6	72.5	0.12	0.31	—	0.31	0.31	—	0.31	—	13,428	13,428	0.54	0.11	—	13,474
Dust From Material Movement	—	—	—	—	—	—	5.35	5.35	—	1.96	1.96	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.55	11.2	21.0	0.04	0.09	—	0.09	0.09	—	0.09	—	3,889	3,889	0.16	0.03	—	3,902
Dust From Material Movement	—	—	—	—	—	—	1.55	1.55	—	0.57	0.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	2.04	3.83	0.01	0.02	—	0.02	0.02	—	0.02	—	644	644	0.03	0.01	—	646

Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.12	2.31	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.35	529
Vendor	0.26	0.12	5.53	1.80	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,485	5,485	0.09	0.82	11.9	5,743
Hauling	0.35	0.13	8.29	2.07	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,666	7,666	0.15	1.20	13.1	8,041
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.14	1.74	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	480	480	0.01	0.02	0.03	486
Vendor	0.25	0.11	5.76	1.85	0.04	0.09	1.67	1.76	0.09	0.46	0.55	—	5,490	5,490	0.09	0.82	0.31	5,736
Hauling	0.34	0.12	8.65	2.10	0.06	0.16	2.19	2.35	0.16	0.61	0.77	—	7,670	7,670	0.15	1.20	0.34	8,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.53	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	141	141	< 0.005	0.01	0.17	143
Vendor	0.07	0.03	1.68	0.53	0.01	0.03	0.48	0.51	0.03	0.13	0.16	—	1,589	1,589	0.03	0.24	1.49	1,662
Hauling	0.10	0.04	2.52	0.60	0.02	0.05	0.63	0.68	0.05	0.18	0.22	—	2,221	2,221	0.04	0.35	1.64	2,327
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.03	23.6
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	263	263	< 0.005	0.04	0.25	275
Hauling	0.02	0.01	0.46	0.11	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	368	368	0.01	0.06	0.27	385

3.13. Building Construction (2029) - 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	1.21	1.11	19.6	32.6	0.05	0.19	—	0.19	0.18	—	0.18	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	1.11	19.6	32.6	0.05	0.19	—	0.19	0.18	—	0.18	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.47	8.33	13.8	0.02	0.08	—	0.08	0.08	—	0.08	—	2,233	2,233	0.09	0.02	—	2,241
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.09	1.52	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	370	370	0.01	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	6.35	6.23	5.05	97.4	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	21,963	21,963	0.22	0.80	56.6	22,263
Vendor	0.35	0.16	7.40	2.41	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,342	7,342	0.12	1.10	15.9	7,687
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	6.01	5.21	5.81	73.2	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	20,207	20,207	0.26	0.80	1.47	20,453
Vendor	0.34	0.15	7.71	2.47	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,348	7,348	0.12	1.10	0.41	7,678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.55	2.21	2.47	32.9	0.00	0.00	9.29	9.29	0.00	2.18	2.18	—	8,689	8,689	0.11	0.34	10.4	8,803
Vendor	0.15	0.07	3.29	1.04	0.02	0.05	0.94	0.99	0.05	0.26	0.31	—	3,119	3,119	0.05	0.47	2.93	3,262
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	0.47	0.40	0.45	6.00	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,439	1,439	0.02	0.06	1.72	1,457
Vendor	0.03	0.01	0.60	0.19	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	516	516	0.01	0.08	0.49	540
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. Building Construction (2030) - 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 Equipm	1.19	1.09	19.6	32.6	0.05	0.18	—	0.18	0.17	—	0.17	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19	1.09	19.6	32.6	0.05	0.18	—	0.18	0.17	—	0.17	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.78	14.0	23.3	0.04	0.13	—	0.13	0.12	—	0.12	—	3,756	3,756	0.15	0.03	—	3,769
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	2.55	4.25	0.01	0.02	—	0.02	0.02	—	0.02	—	622	622	0.03	0.01	—	624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.01	5.25	4.32	90.5	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	21,593	21,593	0.22	0.80	50.4	21,887
Vendor	0.35	0.16	7.07	2.36	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,126	7,126	0.12	1.10	14.1	7,470
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	5.75	4.95	5.08	69.0	0.00	0.00	22.0	22.0	0.00	5.16	5.16	—	19,870	19,870	0.26	0.80	1.31	20,115
Vendor	0.34	0.15	7.43	2.42	0.06	0.12	2.23	2.35	0.12	0.62	0.73	—	7,132	7,132	0.12	1.10	0.37	7,462
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	4.06	3.49	3.63	51.8	0.00	0.00	15.6	15.6	0.00	3.66	3.66	—	14,371	14,371	0.19	0.57	15.6	14,561
Vendor	0.25	0.11	5.30	1.70	0.04	0.08	1.59	1.67	0.08	0.44	0.52	—	5,092	5,092	0.09	0.78	4.35	5,332
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	0.74	0.64	0.66	9.45	0.00	0.00	2.85	2.85	0.00	0.67	0.67	—	2,379	2,379	0.03	0.09	2.58	2,411
Vendor	0.05	0.02	0.97	0.31	0.01	0.02	0.29	0.30	0.02	0.08	0.10	—	843	843	0.01	0.13	0.72	883
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. Paving (2030) - 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	0.91	0.82	13.4	21.2	0.03	0.16	—	0.16	0.15	—	0.15	—	3,021	3,021	0.12	0.02	—	3,032
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.91	0.82	13.4	21.2	0.03	0.16	—	0.16	0.15	—	0.15	—	3,021	3,021	0.12	0.02	—	3,032
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.55	0.50	8.05	12.8	0.02	0.10	—	0.10	0.09	—	0.09	—	1,821	1,821	0.07	0.01	—	1,827
Paving	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	0.10	0.09	1.47	2.33	< 0.005	0.02	—	0.02	0.02	—	0.02	—	301	301	0.01	< 0.005	—	303
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.61	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	0.90	390
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	1.23	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
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	0.06	0.05	0.05	0.78	0.00	0.00	0.23	0.23	0.00	0.06	0.06	—	216	216	< 0.005	0.01	0.23	219
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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	0.04	36.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2030) - 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	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	18.6	18.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	18.6	18.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.26	1.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	215	215	0.01	< 0.005	—	215
Architectural Coatings	11.2	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Architectural Coatings	2.04	2.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.20	1.05	0.86	18.1	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	4,319	4,319	0.04	0.16	10.1	4,377
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	1.15	0.99	1.02	13.8	0.00	0.00	4.40	4.40	0.00	1.03	1.03	—	3,974	3,974	0.05	0.16	0.26	4,023
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	0.68	0.59	0.61	8.74	0.00	0.00	2.64	2.64	0.00	0.62	0.62	—	2,425	2,425	0.03	0.10	2.63	2,457
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	0.12	0.11	0.11	1.59	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	402	402	0.01	0.02	0.43	407
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

4.10. 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
Demolition	Demolition	12/26/2026	10/2/2027	5.00	200	—
Site Preparation	Site Preparation	10/3/2027	3/19/2028	5.00	120	—
Grading	Grading	3/20/2028	5/28/2029	5.00	310	—
Building Construction	Building Construction	5/29/2029	12/31/2030	5.00	416	—
Paving	Paving	2/27/2030	12/31/2030	5.00	220	—
Architectural Coating	Architectural Coating	2/27/2030	12/31/2030	5.00	220	—

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	2.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	6.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	4.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	6.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	8.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Average	4.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Interim	4.00	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Interim	4.00	8.00	87.0	0.43
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	6.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	4.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	4.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	4.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	126	10.2	HHDT,MHDT
Demolition	Hauling	25.3	25.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	35.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	75.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	195	10.2	HHDT,MHDT
Grading	Hauling	121	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	1,683	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	261	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	30.0	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	337	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	6,011,933	2,003,978	80,133

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	20,246	—
Site Preparation	—	—	840	0.00	—
Grading	300,000	—	2,480	0.00	—
Paving	0.00	0.00	0.00	0.00	30.7

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Industrial Park	0.00	0%
Other Asphalt Surfaces	30.7	100%
User Defined Industrial	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
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005
2029	0.00	532	0.03	< 0.005
2030	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00

Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062

Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0

Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Per mitigation Project will use Super Compliant coatings

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APPENDIX 4.4:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 1 OPTION A

15605-Harvest Landing Operations (Phase 1) SCAQMD TL 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 1) SCAQMD TL
Operational Year	2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	231	220	157	997	2.38	3.38	181	184	3.22	46.0	49.2	2,765	269,970	272,735	292	18.3	2,349	287,838
Mit.	215	204	156	902	2.38	3.21	181	184	3.09	46.0	49.1	1,487	266,598	268,085	163	17.7	2,349	279,787
% Reduced	7%	7%	1%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	2,765	257,625	260,390	293	18.6	1,573	274,830
Mit.	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	1,487	254,584	256,070	164	18.0	1,573	267,111
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	2%	44%	3%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	185	175	131	736	1.90	2.25	150	152	2.12	38.2	40.3	2,765	220,250	223,015	291	16.3	1,841	236,982
Mit.	173	165	130	671	1.89	2.14	150	152	2.04	38.2	40.2	1,487	216,983	218,469	162	15.7	1,841	229,036
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.7	32.0	23.8	134	0.35	0.41	27.3	27.7	0.39	6.96	7.35	458	36,465	36,923	48.1	2.70	305	39,235
Mit.	31.6	30.0	23.7	123	0.35	0.39	27.3	27.7	0.37	6.96	7.33	246	35,924	36,170	26.8	2.60	305	37,920
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%

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	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	231	220	157	997	2.38	3.38	181	184	3.22	46.0	49.2	2,765	269,970	272,735	292	18.3	2,349	287,838
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	2,765	257,625	260,390	293	18.6	1,573	274,830
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	113	125	667	1.87	1.82	150	152	1.72	38.2	39.9	—	193,341	193,341	9.47	13.9	288	198,018
Area	61.8	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	185	175	131	736	1.90	2.25	150	152	2.12	38.2	40.3	2,765	220,250	223,015	291	16.3	1,841	236,982
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,840	3,840	0.36	0.04	—	3,860
Water	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	33.7	32.0	23.8	134	0.35	0.41	27.3	27.7	0.39	6.96	7.35	458	36,465	36,923	48.1	2.70	305	39,235

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,032	21,032	1.98	0.21	—	21,145
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	215	204	156	902	2.38	3.21	181	184	3.09	46.0	49.1	1,487	266,598	268,085	163	17.7	2,349	279,787
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	20,975	20,975	1.98	0.21	—	21,087
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	205	194	165	795	2.26	3.21	181	184	3.09	46.0	49.1	1,487	254,584	256,070	164	18.0	1,573	267,111
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	113	125	667	1.87	1.82	150	152	1.72	38.2	39.9	—	193,341	193,341	9.47	13.9	288	198,018
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,014	21,014	1.98	0.21	—	21,127
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	173	165	130	671	1.89	2.14	150	152	2.04	38.2	40.2	1,487	216,983	218,469	162	15.7	1,841	229,036
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,479	3,479	0.33	0.04	—	3,498
Water	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	31.6	30.0	23.7	123	0.35	0.39	27.3	27.7	0.37	6.96	7.33	246	35,924	36,170	26.8	2.60	305	37,920

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	1.64	0.95	37.4	11.1	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,818	36,818	0.60	5.47	109	38,571
Industrial Park	0.33	0.19	7.53	2.24	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,413	7,413	0.12	1.10	22.0	7,766

Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003
High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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
User Defined Industrial	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	1.61	0.92	39.0	11.2	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,828	36,828	0.60	5.47	2.84	38,476
Industrial Park	0.32	0.18	7.86	2.25	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,415	7,415	0.12	1.10	0.57	7,747
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176
Supermarket	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regional Shopping Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasoline/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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
User Defined Industrial	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270

Total	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.26	0.15	6.37	1.80	0.06	0.10	1.90	2.00	0.10	0.51	0.60	—	5,398	5,398	0.09	0.80	6.93	5,647
Industrial Park	0.06	0.03	1.37	0.39	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,160	1,160	0.02	0.17	1.49	1,213
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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
User Defined Industrial	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.64	0.95	37.4	11.1	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,818	36,818	0.60	5.47	109	38,571
Industrial Park	0.33	0.19	7.53	2.24	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,413	7,413	0.12	1.10	22.0	7,766
Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003

High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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
User Defined Industrial	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	157	148	137	885	2.33	2.14	181	183	2.02	46.0	48.0	—	240,331	240,331	10.7	15.9	796	246,134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.61	0.92	39.0	11.2	0.34	0.62	11.8	12.4	0.59	3.16	3.75	—	36,828	36,828	0.60	5.47	2.84	38,476
Industrial Park	0.32	0.18	7.86	2.25	0.07	0.12	2.38	2.50	0.12	0.64	0.75	—	7,415	7,415	0.12	1.10	0.57	7,747
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176

Superm	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regional Shopping Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasoline/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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
User Defined Industrial	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270
Total	147	137	146	778	2.21	2.14	181	183	2.02	46.0	48.1	—	228,373	228,373	11.3	16.2	20.7	233,516
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.26	0.15	6.37	1.80	0.06	0.10	1.90	2.00	0.10	0.51	0.60	—	5,398	5,398	0.09	0.80	6.93	5,647

Industrial Park	0.06	0.03	1.37	0.39	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,160	1,160	0.02	0.17	1.49	1,213
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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
User Defined Industrial	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.2	20.7	22.9	122	0.34	0.33	27.3	27.7	0.31	6.96	7.28	—	32,010	32,010	1.57	2.31	47.7	32,784

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	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	959	959	0.09	0.01	—	964
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	291	291	0.03	< 0.005	—	293
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	70.6	70.6	0.01	< 0.005	—	71.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,320	3,320	0.32	0.04	—	3,339

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,715	6,715	0.64	0.08	—	6,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,288	3,288	0.31	0.04	—	3,307
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,827	3,827	0.36	0.04	—	3,849
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.17	0.02	—	1,749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	846	846	0.08	0.01	—	851
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	17,892	17,892	1.71	0.21	—	17,997
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,282	3,282	0.31	0.04	—	3,302
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	90.9	90.9	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,821	3,821	0.36	0.04	—	3,844
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,734	1,734	0.17	0.02	—	1,744
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	845	845	0.08	0.01	—	850

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.5	92.5	0.01	< 0.005	—	93.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	17,835	17,835	1.70	0.21	—	17,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,110	1,110	0.11	0.01	—	1,116
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	633	633	0.06	0.01	—	637
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	288	288	0.03	< 0.005	—	289

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	—	60.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,959	2,959	0.28	0.03	—	2,977

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

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Servic	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.09	1.93	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	392	504	11.5	0.28	—	876
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.6	51.3	65.9	1.50	0.04	—	114
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.80	1.01	0.02	< 0.005	—	1.74
Supermarket	—	—	—	—	—	—	—	—	—	—	—	7.44	27.1	34.5	0.77	0.02	—	59.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	4.46	17.0	21.5	0.46	0.01	—	36.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	10.1	13.0	0.30	0.01	—	22.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	4.29	5.52	0.13	< 0.005	—	9.60

Gasoline/Servic	—	—	—	—	—	—	—	—	—	—	—	0.05	0.28	0.33	0.01	< 0.005	—	0.50
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	285	366	8.36	0.20	—	635
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	37.3	47.9	1.09	0.03	—	82.8
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.58	0.74	0.02	< 0.005	—	1.26
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	20.3	25.8	0.57	0.01	—	44.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	12.5	15.7	0.33	0.01	—	26.5
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	7.30	9.39	0.22	0.01	—	16.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	3.11	4.00	0.09	< 0.005	—	6.95
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.21	0.25	< 0.005	< 0.005	—	0.37
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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

User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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
User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,462,470	346	0.0330	0.0040	0.00
Medical Office Building	95,937	346	0.0330	0.0040	151,727
Supermarket	5,358,917	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	346	0.0330	0.0040	1,124,295
Supermarket	746,046	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,460,731	346	0.0330	0.0040	0.00
Medical Office Building	95,889	346	0.0330	0.0040	151,727

Supermarket	3,536,697	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	346	0.0330	0.0040	1,124,295
Supermarket	492,364	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	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)
Unrefrigerated Warehouse-No Rail	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axe split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

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APPENDIX 4.5:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION A WITH OVERLAY

15605-Harvest Landing Operations (Phase 2) SCAQMD TL With IO 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 2) SCAQMD TL With IO
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,406,019	—	—	Industrial Park
Industrial Park	348	1000sqft	7.99	348,262	21,788	—	—	Industrial Park (Overlay)

Other Asphalt Surfaces	30.7	Acre	30.7	0.00	0.00	—	—	—
User Defined Industrial	4,008	User Defined Unit	0.00	0.00	0.00	—	—	PC

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	180	171	215	513	2.22	5.71	117	123	5.49	30.5	36.0	4,454	288,467	292,922	462	31.9	877	314,848
Mit.	149	143	214	338	2.21	5.40	117	123	5.26	30.5	35.8	2,358	286,534	288,892	251	30.6	877	305,181
% Reduced	17%	17%	1%	34%	< 0.5%	5%	—	< 0.5%	4%	—	1%	47%	1%	1%	46%	4%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	148	141	222	302	2.17	5.40	117	123	5.26	30.5	35.8	4,454	283,604	288,059	462	32.0	388	309,530

Mit.	148	141	222	302	2.17	5.40	117	123	5.26	30.5	35.8	2,358	282,308	284,666	251	30.8	388	300,502
% Reduced	—	—	—	—	—	—	—	—	—	—	—	47%	< 0.5%	1%	46%	4%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	149	142	165	361	1.85	3.23	102	105	3.05	26.5	29.6	4,454	249,917	254,372	461	28.6	564	274,988
Mit.	128	123	164	241	1.84	3.01	102	105	2.89	26.5	29.4	2,358	248,185	250,542	250	27.4	564	265,522
% Reduced	14%	14%	1%	33%	< 0.5%	7%	—	< 0.5%	5%	—	1%	47%	1%	2%	46%	4%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.2	26.0	30.0	65.8	0.34	0.59	18.6	19.2	0.56	4.84	5.40	737	41,377	42,114	76.4	4.73	93.4	45,527
Mit.	23.3	22.4	29.8	44.0	0.34	0.55	18.6	19.2	0.53	4.84	5.37	390	41,090	41,480	41.5	4.53	93.4	43,960
% Reduced	14%	14%	1%	33%	< 0.5%	7%	—	< 0.5%	5%	—	1%	47%	1%	2%	46%	4%	—	3%

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	40.9	35.7	170	298	2.13	3.08	117	120	2.94	30.5	33.4	—	225,086	225,086	5.10	26.6	502	233,651
Area	122	120	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086

Total	180	171	215	513	2.22	5.71	117	123	5.49	30.5	36.0	4,454	288,467	292,922	462	31.9	877	314,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.4	34.1	178	262	2.09	3.09	117	120	2.94	30.5	33.4	—	220,940	220,940	5.24	26.7	13.0	229,053
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Total	148	141	222	302	2.17	5.40	117	123	5.26	30.5	35.8	4,454	283,604	288,059	462	32.0	388	309,530
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	34.2	29.6	157	236	1.83	2.70	102	105	2.57	26.5	29.1	—	193,717	193,717	4.59	23.4	190	200,996
Area	112	111	1.00	119	0.01	0.21	—	0.21	0.16	—	0.16	—	491	491	0.02	< 0.005	—	493
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	2.37	2.16	6.03	5.50	0.01	0.32	0.00	0.32	0.32	0.00	0.32	0.00	1,104	1,104	0.04	0.01	0.00	1,108
Total	149	142	165	361	1.85	3.23	102	105	3.05	26.5	29.6	4,454	249,917	254,372	461	28.6	564	274,988
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.24	5.40	28.7	43.0	0.33	0.49	18.6	19.1	0.47	4.84	5.31	—	32,072	32,072	0.76	3.87	31.4	33,277
Area	20.5	20.2	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,270	8,270	1.05	0.13	—	8,334
Water	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038
Waste	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Stationary	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183
Total	27.2	26.0	30.0	65.8	0.34	0.59	18.6	19.2	0.56	4.84	5.40	737	41,377	42,114	76.4	4.73	93.4	45,527

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	40.9	35.7	170	298	2.13	3.08	117	120	2.94	30.5	33.4	—	225,086	225,086	5.10	26.6	502	233,651
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	50,006	50,006	6.33	0.77	—	50,393
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Total	149	143	214	338	2.21	5.40	117	123	5.26	30.5	35.8	2,358	286,534	288,892	251	30.6	877	305,181
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.4	34.1	178	262	2.09	3.09	117	120	2.94	30.5	33.4	—	220,940	220,940	5.24	26.7	13.0	229,053
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,926	49,926	6.32	0.77	—	50,312
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086

Total	148	141	222	302	2.17	5.40	117	123	5.26	30.5	35.8	2,358	282,308	284,666	251	30.8	388	300,502
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	34.2	29.6	157	236	1.83	2.70	102	105	2.57	26.5	29.1	—	193,717	193,717	4.59	23.4	190	200,996
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,981	49,981	6.32	0.77	—	50,367
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	2.37	2.16	6.03	5.50	0.01	0.32	0.00	0.32	0.32	0.00	0.32	0.00	1,104	1,104	0.04	0.01	0.00	1,108
Total	128	123	164	241	1.84	3.01	102	105	2.89	26.5	29.4	2,358	248,185	250,542	250	27.4	564	265,522
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.24	5.40	28.7	43.0	0.33	0.49	18.6	19.1	0.47	4.84	5.31	—	32,072	32,072	0.76	3.87	31.4	33,277
Area	16.6	16.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,275	8,275	1.05	0.13	—	8,339
Water	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478
Waste	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Stationary	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183
Total	23.3	22.4	29.8	44.0	0.34	0.55	18.6	19.2	0.53	4.84	5.37	390	41,090	41,480	41.5	4.53	93.4	43,960

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	7.08	3.86	158	47.5	1.58	2.87	59.5	62.4	2.74	15.9	18.7	—	168,954	168,954	2.87	25.1	384	176,896
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
User Defined Industrial	33.9	31.8	12.3	251	0.55	0.22	57.8	58.0	0.20	14.6	14.8	—	56,133	56,133	2.23	1.51	118	56,755
Total	40.9	35.7	170	298	2.13	3.08	117	120	2.94	30.5	33.4	—	225,086	225,086	5.10	26.6	502	233,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.92	3.71	165	47.9	1.58	2.87	59.5	62.4	2.74	15.9	18.7	—	169,009	169,009	2.87	25.1	9.97	176,582
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
User Defined Industrial	32.4	30.4	13.6	214	0.51	0.22	57.8	58.0	0.20	14.6	14.8	—	51,932	51,932	2.37	1.60	3.06	52,471
Total	39.4	34.1	178	262	2.09	3.09	117	120	2.94	30.5	33.4	—	220,940	220,940	5.24	26.7	13.0	229,053
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.12	0.60	26.5	7.59	0.25	0.46	9.45	9.91	0.44	2.53	2.97	—	24,464	24,464	0.42	3.64	24.0	25,583
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

User Defined Industrial	5.12	4.80	2.22	35.4	0.08	0.03	9.17	9.20	0.03	2.31	2.35	—	7,608	7,608	0.34	0.24	7.37	7,694
Total	6.24	5.40	28.7	43.0	0.33	0.49	18.6	19.1	0.47	4.84	5.31	—	32,072	32,072	0.76	3.87	31.4	33,277

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	7.08	3.86	158	47.5	1.58	2.87	59.5	62.4	2.74	15.9	18.7	—	168,954	168,954	2.87	25.1	384	176,896
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
User Defined Industrial	33.9	31.8	12.3	251	0.55	0.22	57.8	58.0	0.20	14.6	14.8	—	56,133	56,133	2.23	1.51	118	56,755
Total	40.9	35.7	170	298	2.13	3.08	117	120	2.94	30.5	33.4	—	225,086	225,086	5.10	26.6	502	233,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.92	3.71	165	47.9	1.58	2.87	59.5	62.4	2.74	15.9	18.7	—	169,009	169,009	2.87	25.1	9.97	176,582
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
User Defined Industrial	32.4	30.4	13.6	214	0.51	0.22	57.8	58.0	0.20	14.6	14.8	—	51,932	51,932	2.37	1.60	3.06	52,471
Total	39.4	34.1	178	262	2.09	3.09	117	120	2.94	30.5	33.4	—	220,940	220,940	5.24	26.7	13.0	229,053

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.12	0.60	26.5	7.59	0.25	0.46	9.45	9.91	0.44	2.53	2.97	—	24,464	24,464	0.42	3.64	24.0	25,583
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
User Defined Industrial	5.12	4.80	2.22	35.4	0.08	0.03	9.17	9.20	0.03	2.31	2.35	—	7,608	7,608	0.34	0.24	7.37	7,694
Total	6.24	5.40	28.7	43.0	0.33	0.49	18.6	19.1	0.47	4.84	5.31	—	32,072	32,072	0.76	3.87	31.4	33,277

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	8,270	8,270	1.05	0.13	—	8,334
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,270	8,270	1.05	0.13	—	8,334

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	50,006	50,006	6.33	0.77	—	50,393
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	50,006	50,006	6.33	0.77	—	50,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	49,926	49,926	6.32	0.77	—	50,312
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,926	49,926	6.32	0.77	—	50,312
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	8,275	8,275	1.05	0.13	—	8,339
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,275	8,275	1.05	0.13	—	8,339

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	31.0	28.6	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Total	122	120	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.88	3.58	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6
Total	20.5	20.2	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.6	16.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7

Fire Pump	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7
Total	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7

Fire Pump	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7
Total	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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
Industrial Park	2,082	1,570	765	664,650	62,388	47,037	22,916	19,912,911
Industrial Park	198	149	72.8	63,249	5,947	4,484	2,184	1,898,106
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	11,222	8,461	4,132	3,582,442	83,004	62,579	30,563	26,497,034

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	2,082	1,570	765	664,650	62,388	47,037	22,916	19,912,911
Industrial Park	198	149	72.8	63,249	5,947	4,484	2,184	1,898,106
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	11,222	8,461	4,132	3,582,442	83,004	62,579	30,563	26,497,034

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	6,011,933	2,003,978	80,133

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,836,655	261	0.0330	0.0040	0.00
Industrial Park	6,074,794	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,804,606	261	0.0330	0.0040	0.00
Industrial Park	6,071,744	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)

Industrial Park	846,304,006	38,149,142
Industrial Park	80,535,588	345,464
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	613,062,622	30,519,313
Industrial Park	58,339,980	276,371
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	4,538	—
Industrial Park	432	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	1,815	—
Industrial Park	173	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

Emergency Generator	Diesel	16.0	1.00	50.0	300	0.73
Fire Pump	Diesel	16.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—

Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702

Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—

Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axe split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

Operations: Emergency Generators and Fire Pumps	Emergency Generators and Fire Pumps quantity based on average Emergency Generators and Fire Pumps for phase 1.

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APPENDIX 4.6:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION A WITHOUT OVERLAY

15605-Harvest Landing Operations (Phase 2) SCAQMD TL Without IO 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 2) SCAQMD TL Without IO
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,421,840	—	—	Industrial Park
Other Asphalt Surfaces	31.3	Acre	31.3	0.00	0.00	—	—	—

User Defined Industrial	3,660	User Defined Unit	0.00	0.00	0.00	—	—	PC

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	165	157	198	469	2.03	5.27	107	112	5.07	27.8	32.9	4,067	263,585	267,652	422	29.1	801	287,672
Mit.	137	131	196	310	2.02	4.99	107	112	4.86	27.8	32.7	2,153	261,817	263,970	229	28.0	801	278,842
% Reduced	17%	17%	1%	34%	< 0.5%	5%	—	< 0.5%	4%	—	1%	47%	1%	1%	46%	4%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	135	129	204	277	1.98	4.99	107	112	4.86	27.8	32.7	4,067	259,143	263,210	422	29.2	354	282,815
Mit.	135	129	204	277	1.98	4.99	107	112	4.86	27.8	32.7	2,153	257,957	260,110	229	28.1	354	274,568

% Reduced	—	—	—	—	—	—	—	—	—	—	—	47%	< 0.5%	1%	46%	4%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	136	130	150	329	1.69	2.95	93.2	96.1	2.79	24.2	27.0	4,067	228,214	232,281	421	26.1	515	251,105
Mit.	117	112	149	220	1.68	2.76	93.2	95.9	2.65	24.2	26.9	2,153	226,629	228,783	229	25.0	515	242,458
% Reduced	14%	14%	1%	33%	< 0.5%	7%	—	< 0.5%	5%	—	1%	47%	1%	2%	46%	4%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.8	23.7	27.4	60.1	0.31	0.54	17.0	17.5	0.51	4.42	4.93	673	37,783	38,457	69.7	4.32	85.3	41,573
Mit.	21.3	20.5	27.3	40.2	0.31	0.50	17.0	17.5	0.48	4.42	4.91	356	37,521	37,878	37.9	4.14	85.3	40,142
% Reduced	14%	14%	1%	33%	< 0.5%	7%	—	< 0.5%	5%	—	1%	47%	1%	2%	46%	4%	—	3%

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	37.4	32.6	155	272	1.95	2.82	107	110	2.69	27.8	30.5	—	205,502	205,502	4.65	24.3	458	213,321
Area	112	109	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	165	157	198	469	2.03	5.27	107	112	5.07	27.8	32.9	4,067	263,585	267,652	422	29.1	801	287,672

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	36.0	31.2	163	240	1.91	2.82	107	110	2.69	27.8	30.5	—	201,715	201,715	4.78	24.4	11.9	209,121
Area	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	135	129	204	277	1.98	4.99	107	112	4.86	27.8	32.7	4,067	259,143	263,210	422	29.2	354	282,815
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.2	27.0	144	215	1.67	2.46	93.2	95.6	2.35	24.2	26.6	—	176,858	176,858	4.19	21.4	173	183,503
Area	103	101	0.92	109	0.01	0.19	—	0.19	0.15	—	0.15	—	448	448	0.02	< 0.005	—	450
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	2.22	2.02	5.65	5.16	0.01	0.30	0.00	0.30	0.30	0.00	0.30	0.00	1,035	1,035	0.04	0.01	0.00	1,038
Total	136	130	150	329	1.69	2.95	93.2	96.1	2.79	24.2	27.0	4,067	228,214	232,281	421	26.1	515	251,105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.70	4.93	26.2	39.3	0.31	0.45	17.0	17.5	0.43	4.42	4.85	—	29,281	29,281	0.69	3.54	28.7	30,381
Area	18.7	18.4	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,551	7,551	0.96	0.12	—	7,610
Water	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863
Waste	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

Stationa	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172
Total	24.8	23.7	27.4	60.1	0.31	0.54	17.0	17.5	0.51	4.42	4.93	673	37,783	38,457	69.7	4.32	85.3	41,573

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	37.4	32.6	155	272	1.95	2.82	107	110	2.69	27.8	30.5	—	205,502	205,502	4.65	24.3	458	213,321
Area	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,661	45,661	5.78	0.70	—	46,014
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	137	131	196	310	2.02	4.99	107	112	4.86	27.8	32.7	2,153	261,817	263,970	229	28.0	801	278,842
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	36.0	31.2	163	240	1.91	2.82	107	110	2.69	27.8	30.5	—	201,715	201,715	4.78	24.4	11.9	209,121
Area	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,588	45,588	5.77	0.70	—	45,940
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	135	129	204	277	1.98	4.99	107	112	4.86	27.8	32.7	2,153	257,957	260,110	229	28.1	354	274,568

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.2	27.0	144	215	1.67	2.46	93.2	95.6	2.35	24.2	26.6	—	176,858	176,858	4.19	21.4	173	183,503
Area	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,638	45,638	5.77	0.70	—	45,991
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	2.22	2.02	5.65	5.16	0.01	0.30	0.00	0.30	0.30	0.00	0.30	0.00	1,035	1,035	0.04	0.01	0.00	1,038
Total	117	112	149	220	1.68	2.76	93.2	95.9	2.65	24.2	26.9	2,153	226,629	228,783	229	25.0	515	242,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.70	4.93	26.2	39.3	0.31	0.45	17.0	17.5	0.43	4.42	4.85	—	29,281	29,281	0.69	3.54	28.7	30,381
Area	15.2	15.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,556	7,556	0.96	0.12	—	7,614
Water	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351
Waste	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Stationary	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172
Total	21.3	20.5	27.3	40.2	0.31	0.50	17.0	17.5	0.48	4.42	4.91	356	37,521	37,878	37.9	4.14	85.3	40,142

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.47	3.52	144	43.4	1.44	2.62	54.3	56.9	2.50	14.5	17.0	—	154,229	154,229	2.62	22.9	351	161,479
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
User Defined Industrial	30.9	29.1	11.3	229	0.51	0.20	52.8	53.0	0.18	13.3	13.5	—	51,274	51,274	2.03	1.38	108	51,842
Total	37.4	32.6	155	272	1.95	2.82	107	110	2.69	27.8	30.5	—	205,502	205,502	4.65	24.3	458	213,321
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.32	3.39	150	43.7	1.44	2.62	54.3	56.9	2.50	14.5	17.0	—	154,279	154,279	2.62	22.9	9.10	161,192
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
User Defined Industrial	29.6	27.8	12.4	196	0.47	0.20	52.8	53.0	0.18	13.3	13.5	—	47,436	47,436	2.17	1.46	2.79	47,929
Total	36.0	31.2	163	240	1.91	2.82	107	110	2.69	27.8	30.5	—	201,715	201,715	4.78	24.4	11.9	209,121
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.02	0.55	24.2	6.93	0.23	0.42	8.63	9.05	0.40	2.31	2.71	—	22,332	22,332	0.38	3.32	21.9	23,353
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
User Defined Industrial	4.68	4.38	2.03	32.3	0.08	0.03	8.37	8.41	0.03	2.11	2.14	—	6,949	6,949	0.31	0.22	6.73	7,028
Total	5.70	4.93	26.2	39.3	0.31	0.45	17.0	17.5	0.43	4.42	4.85	—	29,281	29,281	0.69	3.54	28.7	30,381

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.47	3.52	144	43.4	1.44	2.62	54.3	56.9	2.50	14.5	17.0	—	154,229	154,229	2.62	22.9	351	161,479
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
User Defined Industrial	30.9	29.1	11.3	229	0.51	0.20	52.8	53.0	0.18	13.3	13.5	—	51,274	51,274	2.03	1.38	108	51,842
Total	37.4	32.6	155	272	1.95	2.82	107	110	2.69	27.8	30.5	—	205,502	205,502	4.65	24.3	458	213,321
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	6.32	3.39	150	43.7	1.44	2.62	54.3	56.9	2.50	14.5	17.0	—	154,279	154,279	2.62	22.9	9.10	161,192
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
User Defined Industrial	29.6	27.8	12.4	196	0.47	0.20	52.8	53.0	0.18	13.3	13.5	—	47,436	47,436	2.17	1.46	2.79	47,929
Total	36.0	31.2	163	240	1.91	2.82	107	110	2.69	27.8	30.5	—	201,715	201,715	4.78	24.4	11.9	209,121
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.02	0.55	24.2	6.93	0.23	0.42	8.63	9.05	0.40	2.31	2.71	—	22,332	22,332	0.38	3.32	21.9	23,353

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
User Defined Industrial	4.68	4.38	2.03	32.3	0.08	0.03	8.37	8.41	0.03	2.11	2.14	—	6,949	6,949	0.31	0.22	6.73	7,028
Total	5.70	4.93	26.2	39.3	0.31	0.45	17.0	17.5	0.43	4.42	4.85	—	29,281	29,281	0.69	3.54	28.7	30,381

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,551	7,551	0.96	0.12	—	7,610
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,551	7,551	0.96	0.12	—	7,610

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,661	45,661	5.78	0.70	—	46,014
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	45,661	45,661	5.78	0.70	—	46,014
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,588	45,588	5.77	0.70	—	45,940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,588	45,588	5.77	0.70	—	45,940
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,556	7,556	0.96	0.12	—	7,614
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,556	7,556	0.96	0.12	—	7,614

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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	78.4	78.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.75	4.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28.3	26.2	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Total	112	109	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78.4	78.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	4.75	4.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14.3	14.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.87	0.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.54	3.27	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5
Total	18.7	18.4	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	78.4	78.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.75	4.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	78.4	78.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.75	4.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	83.2	83.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14.3	14.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.87	0.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	15.2	15.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0

Fire Pump	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0
Total	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0

Fire Pump	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0
Total	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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
Industrial Park	2,082	1,570	765	664,650	62,388	47,037	22,916	19,912,911
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,251	7,726	3,773	3,272,108	75,819	57,141	27,908	24,201,693

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	2,082	1,570	765	664,650	62,388	47,037	22,916	19,912,911
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,251	7,726	3,773	3,272,108	75,819	57,141	27,908	24,201,693

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	5,489,540	1,829,847	81,701

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,836,655	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,804,606	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)
Industrial Park	846,304,006	38,399,995
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Industrial Park	613,062,622	30,719,996
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	4,538	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	1,815	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Industrial Park	Other commercial A/C and heat pumps	User Defined	750	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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	15.0	1.00	50.0	300	0.73
Fire Pump	Diesel	15.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0

Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—

Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9

Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3

Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY

Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axe split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater
Operations: Emergency Generators and Fire Pumps	Emergency Generators and Fire Pumps quantity based on average Emergency Generators and Fire Pumps for phase 1.

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APPENDIX 4.7:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PROJECT BUILDOUT (PHASE 1) OPTION A

15605-Harvest Landing Operations (Phase 1) SCAQMD TL Project Buildout 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 1) SCAQMD TL Project Buildout
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	203	193	130	850	2.20	3.05	180	184	2.91	46.0	48.9	2,765	245,339	248,104	290	16.7	2,055	262,399
Mit.	186	177	130	756	2.19	2.88	180	183	2.78	46.0	48.7	1,487	242,703	244,190	162	16.1	2,055	255,085
% Reduced	8%	8%	1%	11%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	4%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	2,765	233,893	236,658	291	17.0	1,566	250,560
Mit.	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	1,487	231,602	233,089	162	16.4	1,566	243,591
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	2%	44%	4%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	164	155	106	625	1.75	1.98	150	152	1.87	38.1	40.0	2,765	199,255	202,020	289	14.9	1,735	215,425
Mit.	152	145	106	561	1.75	1.86	150	151	1.78	38.1	39.9	1,487	196,728	198,215	160	14.3	1,735	208,220
% Reduced	7%	7%	1%	10%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	46%	1%	2%	45%	4%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.8	28.4	19.4	114	0.32	0.36	27.3	27.7	0.34	6.95	7.29	458	32,989	33,447	47.9	2.47	287	35,666
Mit.	27.7	26.4	19.3	102	0.32	0.34	27.3	27.6	0.32	6.95	7.28	246	32,571	32,817	26.6	2.37	287	34,473
% Reduced	7%	7%	1%	10%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	46%	1%	2%	45%	4%	—	3%

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	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	203	193	130	850	2.20	3.05	180	184	2.91	46.0	48.9	2,765	245,339	248,104	290	16.7	2,055	262,399
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	2,765	233,893	236,658	291	17.0	1,566	250,560
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	100	93.5	101	556	1.73	1.55	150	151	1.46	38.1	39.6	—	178,042	178,042	8.02	12.5	182	182,158
Area	61.9	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	164	155	106	625	1.75	1.98	150	152	1.87	38.1	40.0	2,765	199,255	202,020	289	14.9	1,735	215,425
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,021	3,021	0.36	0.04	—	3,041
Water	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	29.8	28.4	19.4	114	0.32	0.36	27.3	27.7	0.34	6.95	7.29	458	32,989	33,447	47.9	2.47	287	35,666

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,618	16,618	1.98	0.21	—	16,731
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	186	177	130	756	2.19	2.88	180	183	2.78	46.0	48.7	1,487	242,703	244,190	162	16.1	2,055	255,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,575	16,575	1.98	0.21	—	16,687
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	179	170	137	667	2.08	2.89	180	183	2.79	46.0	48.7	1,487	231,602	233,089	162	16.4	1,566	243,591
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	100	93.5	101	556	1.73	1.55	150	151	1.46	38.1	39.6	—	178,042	178,042	8.02	12.5	182	182,158
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,605	16,605	1.98	0.21	—	16,717
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	152	145	106	561	1.75	1.86	150	151	1.78	38.1	39.9	1,487	196,728	198,215	160	14.3	1,735	208,220
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,749	2,749	0.33	0.04	—	2,768
Water	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	27.7	26.4	19.3	102	0.32	0.34	27.3	27.6	0.32	6.95	7.28	246	32,571	32,817	26.6	2.37	287	34,473

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	1.41	0.77	31.2	9.44	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,451	33,451	0.57	4.97	76.2	35,023
Industrial Park	0.28	0.15	6.29	1.90	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,735	6,735	0.11	1.00	15.3	7,052

Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636
High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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
User Defined Industrial	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	1.37	0.74	32.6	9.50	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,462	33,462	0.57	4.98	1.98	34,960
Industrial Park	0.28	0.15	6.57	1.91	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,737	6,737	0.11	1.00	0.40	7,039
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085
Supermarket	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regional Shopping Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasoline/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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
User Defined Industrial	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788

Total	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.12	5.32	1.53	0.05	0.09	1.90	1.99	0.09	0.51	0.60	—	4,905	4,905	0.08	0.73	4.83	5,129
Industrial Park	0.05	0.03	1.14	0.33	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,054	1,054	0.02	0.16	1.03	1,102
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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
User Defined Industrial	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.41	0.77	31.2	9.44	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,451	33,451	0.57	4.97	76.2	35,023
Industrial Park	0.28	0.15	6.29	1.90	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,735	6,735	0.11	1.00	15.3	7,052
Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636

High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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
User Defined Industrial	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	129	121	111	739	2.15	1.82	180	182	1.71	46.0	47.7	—	221,396	221,396	9.10	14.3	503	226,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.37	0.74	32.6	9.50	0.31	0.57	11.8	12.4	0.54	3.16	3.70	—	33,462	33,462	0.57	4.98	1.98	34,960
Industrial Park	0.28	0.15	6.57	1.91	0.06	0.11	2.37	2.49	0.11	0.63	0.74	—	6,737	6,737	0.11	1.00	0.40	7,039
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085

Superm	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regional Shopping Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasoline/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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
User Defined Industrial	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788
Total	122	114	117	650	2.04	1.82	180	182	1.72	46.0	47.7	—	210,338	210,338	9.60	14.6	13.0	214,942
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.12	5.32	1.53	0.05	0.09	1.90	1.99	0.09	0.51	0.60	—	4,905	4,905	0.08	0.73	4.83	5,129

Industrial Park	0.05	0.03	1.14	0.33	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,054	1,054	0.02	0.16	1.03	1,102
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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
User Defined Industrial	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.3	17.1	18.4	102	0.31	0.28	27.3	27.6	0.27	6.95	7.22	—	29,477	29,477	1.33	2.07	30.2	30,158

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	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	832	832	0.11	0.01	—	839
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	722	722	0.09	0.01	—	728
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	219	219	0.03	< 0.005	—	221
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.2	53.2	0.01	< 0.005	—	53.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,501	2,501	0.32	0.04	—	2,520

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,059	5,059	0.64	0.08	—	5,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,477	2,477	0.31	0.04	—	2,496
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.6	68.6	0.01	< 0.005	—	69.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,883	2,883	0.36	0.04	—	2,905
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,310	1,310	0.17	0.02	—	1,320
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	642
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.4

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,478	13,478	1.71	0.21	—	13,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,473	2,473	0.31	0.04	—	2,492
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,879	2,879	0.36	0.04	—	2,901
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,306	1,306	0.17	0.02	—	1,316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	641

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.7	69.7	0.01	< 0.005	—	70.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,435	13,435	1.70	0.21	—	13,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	836	836	0.11	0.01	—	842
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.4	11.4	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	477	477	0.06	0.01	—	481
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	217	217	0.03	< 0.005	—	218

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	105	105	0.01	< 0.005	—	106
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	44.9	44.9	0.01	< 0.005	—	45.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,229	2,229	0.28	0.03	—	2,246

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

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Servic	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.10	1.94	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	295	408	11.5	0.28	—	779
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.6	38.7	53.2	1.50	0.04	—	101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.60	0.82	0.02	< 0.005	—	1.54
Supermarket	—	—	—	—	—	—	—	—	—	—	—	7.44	20.4	27.8	0.77	0.02	—	52.5
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	4.46	12.8	17.3	0.46	0.01	—	32.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	7.58	10.5	0.30	0.01	—	20.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	3.23	4.46	0.13	< 0.005	—	8.54

Gasoline/Servic	—	—	—	—	—	—	—	—	—	—	—	0.05	0.21	0.26	0.01	< 0.005	—	0.43
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.90
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.90
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	215	296	8.36	0.20	—	565
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	28.1	38.7	1.09	0.03	—	73.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.44	0.60	0.02	< 0.005	—	1.12
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	15.3	20.8	0.57	0.01	—	39.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	9.41	12.7	0.33	0.01	—	23.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	5.50	7.59	0.22	0.01	—	14.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	2.34	3.23	0.09	< 0.005	—	6.18
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.16	0.19	< 0.005	< 0.005	—	0.32
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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

User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	7,986	3,794	3,578	2,466,571
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	5,560	4,462	4,404	1,911,937
Industrial Park	90.9	73.8	72.8	31,351	2,725	2,213	2,183	939,596
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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
User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,462,470	261	0.0330	0.0040	0.00
Medical Office Building	95,937	261	0.0330	0.0040	151,727
Supermarket	5,358,917	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	261	0.0330	0.0040	1,124,295
Supermarket	746,046	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	261	0.0330	0.0040	439,296
Parking Lot	984,872	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,460,731	261	0.0330	0.0040	0.00
Medical Office Building	95,889	261	0.0330	0.0040	151,727

Supermarket	3,536,697	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	261	0.0330	0.0040	1,124,295
Supermarket	492,364	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	261	0.0330	0.0040	439,296
Parking Lot	984,872	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)
Unrefrigerated Warehouse-No Rail	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,138	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per SCAQMD weighted truck axe split (15.3 miles for 2-axle, 14.2 miles for 3-axle and 39.9 miles for 4-axle trucks)
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

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APPENDIX 4.8:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 1 OPTION B

15605-Harvest Landing Operations (Phase 1) VMT TL 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 1) VMT TL
Operational Year	2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	233	220	191	1,005	2.73	4.00	193	197	3.81	49.2	53.0	2,765	306,704	309,468	292	23.8	2,459	326,316
Mit.	216	205	190	910	2.72	3.83	193	196	3.69	49.2	52.9	1,487	303,332	304,819	164	23.1	2,459	318,266
% Reduced	7%	7%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	2,765	294,359	297,124	293	24.1	1,576	313,201
Mit.	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	1,487	291,317	292,804	164	23.5	1,576	305,482
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	1%	44%	3%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	186	176	162	743	2.20	2.81	160	163	2.66	41.0	43.7	2,765	253,144	255,909	291	21.2	1,883	271,382
Mit.	174	165	162	678	2.20	2.70	160	163	2.57	41.0	43.6	1,487	249,876	251,363	162	20.6	1,883	263,436
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.9	32.1	29.6	136	0.40	0.51	29.3	29.8	0.48	7.48	7.97	458	41,911	42,369	48.2	3.51	312	44,930
Mit.	31.8	30.1	29.5	124	0.40	0.49	29.3	29.8	0.47	7.48	7.95	246	41,370	41,616	26.9	3.41	312	43,615
% Reduced	6%	6%	< 0.5%	9%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

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	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	233	220	191	1,005	2.73	4.00	193	197	3.81	49.2	53.0	2,765	306,704	309,468	292	23.8	2,459	326,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	2,765	294,359	297,124	293	24.1	1,576	313,201
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	157	674	2.18	2.38	160	163	2.25	41.0	43.3	—	226,235	226,235	9.91	18.8	331	232,418
Area	61.8	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	23,192	23,192	2.19	0.24	—	23,317
Water	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	186	176	162	743	2.20	2.81	160	163	2.66	41.0	43.7	2,765	253,144	255,909	291	21.2	1,883	271,382
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,840	3,840	0.36	0.04	—	3,860
Water	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	33.9	32.1	29.6	136	0.40	0.51	29.3	29.8	0.48	7.48	7.97	458	41,911	42,369	48.2	3.51	312	44,930

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,032	21,032	1.98	0.21	—	21,145
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	216	205	190	910	2.72	3.83	193	196	3.69	49.2	52.9	1,487	303,332	304,819	164	23.1	2,459	318,266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	20,975	20,975	1.98	0.21	—	21,087
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	206	195	200	803	2.60	3.84	193	196	3.69	49.2	52.9	1,487	291,317	292,804	164	23.5	1,576	305,482
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	157	674	2.18	2.38	160	163	2.25	41.0	43.3	—	226,235	226,235	9.91	18.8	331	232,418
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	21,014	21,014	1.98	0.21	—	21,127
Water	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	174	165	162	678	2.20	2.70	160	163	2.57	41.0	43.6	1,487	249,876	251,363	162	20.6	1,883	263,436
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,479	3,479	0.33	0.04	—	3,498
Water	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	31.8	30.1	29.5	124	0.40	0.49	29.3	29.8	0.47	7.48	7.95	246	41,370	41,616	26.9	3.41	312	43,615

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	2.69	1.52	65.2	17.7	0.63	1.13	21.7	22.9	1.09	5.82	6.90	—	67,395	67,395	1.01	9.99	201	70,600
Industrial Park	0.54	0.30	13.1	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,569	13,569	0.20	2.01	40.5	14,215

Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003
High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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
User Defined Industrial	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	2.65	1.49	68.1	17.7	0.63	1.14	21.7	22.9	1.09	5.82	6.90	—	67,405	67,405	1.01	10.0	5.23	70,416
Industrial Park	0.53	0.30	13.7	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,572	13,572	0.20	2.01	1.05	14,178
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176
Supermarket	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regional Shopping Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasoline/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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
User Defined Industrial	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270

Total	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.43	0.24	11.1	2.86	0.10	0.18	3.50	3.68	0.18	0.94	1.11	—	9,881	9,881	0.15	1.47	12.8	10,335
Industrial Park	0.09	0.05	2.39	0.61	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	2,123	2,123	0.03	0.32	2.73	2,220
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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
User Defined Industrial	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.69	1.52	65.2	17.7	0.63	1.13	21.7	22.9	1.09	5.82	6.90	—	67,395	67,395	1.01	9.99	201	70,600
Industrial Park	0.54	0.30	13.1	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,569	13,569	0.20	2.01	40.5	14,215
Medical Office Building	0.81	0.76	0.57	5.12	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,231	1,231	0.06	0.06	4.23	1,253
Supermarket	52.9	49.7	34.3	306	0.70	0.53	60.0	60.5	0.50	15.2	15.7	—	71,481	71,481	3.48	3.48	245	72,848
Regional Shopping Center	36.2	33.8	25.3	229	0.54	0.40	46.4	46.8	0.38	11.8	12.1	—	54,980	54,980	2.50	2.59	189	56,003

High Turnover (Sit Down Restaurant)	15.4	14.4	9.78	87.0	0.20	0.15	16.9	17.1	0.14	4.30	4.44	—	20,189	20,189	1.00	0.99	69.0	20,578
Fast Food Restaurant with Drive Thru	28.1	26.9	13.1	109	0.21	0.17	17.1	17.3	0.16	4.35	4.51	—	21,157	21,157	1.53	1.27	69.9	21,643
Gasoline/Service Station	7.85	7.54	3.49	28.8	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,389	5,389	0.42	0.34	17.7	5,518
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
User Defined Industrial	14.3	13.4	5.70	108	0.21	0.10	20.7	20.8	0.09	5.22	5.32	—	21,673	21,673	0.98	0.63	70.3	21,954
Total	159	148	171	893	2.68	2.76	193	195	2.62	49.2	51.8	—	277,064	277,064	11.2	21.3	907	284,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.65	1.49	68.1	17.7	0.63	1.14	21.7	22.9	1.09	5.82	6.90	—	67,405	67,405	1.01	10.0	5.23	70,416
Industrial Park	0.53	0.30	13.7	3.57	0.13	0.23	4.37	4.60	0.22	1.17	1.39	—	13,572	13,572	0.20	2.01	1.05	14,178
Medical Office Building	0.76	0.70	0.61	4.41	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,157	1,157	0.06	0.06	0.11	1,176

Superm	49.4	46.2	36.7	267	0.66	0.53	60.0	60.5	0.50	15.2	15.7	—	67,222	67,222	3.69	3.59	6.35	68,390
Regional Shopping Center	33.9	31.5	27.1	197	0.50	0.40	46.4	46.8	0.38	11.8	12.1	—	51,685	51,685	2.63	2.67	4.90	52,552
High Turnover (Sit Down Restaurant)	14.3	13.4	10.5	76.1	0.19	0.15	16.9	17.1	0.14	4.30	4.44	—	18,988	18,988	1.06	1.02	1.79	19,321
Fast Food Restaurant with Drive Thru	26.1	24.9	13.9	101	0.19	0.17	17.1	17.3	0.16	4.35	4.51	—	19,949	19,949	1.66	1.31	1.81	20,383
Gasoline/Service Station	7.30	6.97	3.72	27.1	0.05	0.04	4.33	4.38	0.04	1.10	1.14	—	5,085	5,085	0.45	0.35	0.46	5,200
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
User Defined Industrial	13.7	12.8	6.27	92.2	0.20	0.10	20.7	20.8	0.09	5.22	5.32	—	20,044	20,044	1.05	0.67	1.82	20,270
Total	149	138	181	786	2.56	2.77	193	195	2.62	49.2	51.8	—	265,107	265,107	11.8	21.7	23.5	271,887
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.43	0.24	11.1	2.86	0.10	0.18	3.50	3.68	0.18	0.94	1.11	—	9,881	9,881	0.15	1.47	12.8	10,335

Industrial Park	0.09	0.05	2.39	0.61	0.02	0.04	0.75	0.79	0.04	0.20	0.24	—	2,123	2,123	0.03	0.32	2.73	2,220
Medical Office Building	0.11	0.10	0.09	0.64	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	150	150	0.01	0.01	0.23	152
Supermarket	7.51	7.01	5.71	42.2	0.10	0.08	9.14	9.22	0.08	2.32	2.40	—	9,429	9,429	0.51	0.50	14.7	9,607
Regional Shopping Center	4.71	4.37	3.86	28.6	0.07	0.06	6.46	6.52	0.05	1.64	1.69	—	6,635	6,635	0.34	0.34	10.4	6,756
High Turnover (Sit Down Restaurant)	2.20	2.05	1.64	12.1	0.03	0.02	2.60	2.62	0.02	0.66	0.68	—	2,685	2,685	0.15	0.14	4.18	2,736
Fast Food Restaurant with Drive Thru	3.87	3.68	2.11	15.6	0.03	0.03	2.55	2.58	0.02	0.65	0.67	—	2,732	2,732	0.23	0.18	4.10	2,795
Gasoline/Service Station	1.25	1.19	0.65	4.80	0.01	0.01	0.75	0.75	0.01	0.19	0.20	—	805	805	0.07	0.05	1.20	824
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
User Defined Industrial	2.22	2.07	1.05	15.7	0.03	0.02	3.37	3.39	0.01	0.85	0.87	—	3,016	3,016	0.16	0.10	4.51	3,054
Total	22.4	20.8	28.6	123	0.40	0.43	29.3	29.7	0.41	7.48	7.89	—	37,456	37,456	1.64	3.11	54.8	38,480

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	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.31	0.04	—	3,303
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.0	91.0	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	5,790	5,790	0.55	0.07	—	5,824

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,757	1,757	0.17	0.02	—	1,767
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.10	0.01	—	1,007
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	426	426	0.04	< 0.005	—	429
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,052	20,052	1.91	0.23	—	20,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,105	1,105	0.11	0.01	—	1,112
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	959	959	0.09	0.01	—	964
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	291	291	0.03	< 0.005	—	293
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	70.6	70.6	0.01	< 0.005	—	71.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,320	3,320	0.32	0.04	—	3,339

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,715	6,715	0.64	0.08	—	6,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,288	3,288	0.31	0.04	—	3,307
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,827	3,827	0.36	0.04	—	3,849
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.17	0.02	—	1,749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	846	846	0.08	0.01	—	851
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	17,892	17,892	1.71	0.21	—	17,997
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,675	6,675	0.64	0.08	—	6,714
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,282	3,282	0.31	0.04	—	3,302
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	90.9	90.9	0.01	< 0.005	—	91.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	3,821	3,821	0.36	0.04	—	3,844
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,734	1,734	0.17	0.02	—	1,744
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	845	845	0.08	0.01	—	850

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	360	360	0.03	< 0.005	—	362
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	92.5	92.5	0.01	< 0.005	—	93.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	17,835	17,835	1.70	0.21	—	17,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,110	1,110	0.11	0.01	—	1,116
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.05	0.01	—	547
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	< 0.005	< 0.005	—	15.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	633	633	0.06	0.01	—	637
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	288	288	0.03	< 0.005	—	289

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	—	60.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	156
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,959	2,959	0.28	0.03	—	2,977

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

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Servic	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.09	1.93	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	2,368	3,046	69.7	1.68	—	5,289
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	310	398	9.05	0.22	—	689
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	4.80	6.13	0.14	< 0.005	—	10.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	164	208	4.62	0.11	—	357
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	103	130	2.77	0.07	—	219
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	60.8	78.3	1.80	0.04	—	136
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	25.9	33.3	0.77	0.02	—	58.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.68	1.98	0.03	< 0.005	—	3.00
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	3,038	3,902	88.9	2.14	—	6,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	392	504	11.5	0.28	—	876
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.6	51.3	65.9	1.50	0.04	—	114
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.80	1.01	0.02	< 0.005	—	1.74
Supermarket	—	—	—	—	—	—	—	—	—	—	—	7.44	27.1	34.5	0.77	0.02	—	59.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	4.46	17.0	21.5	0.46	0.01	—	36.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	10.1	13.0	0.30	0.01	—	22.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	4.29	5.52	0.13	< 0.005	—	9.60

Gasoline/Servic	—	—	—	—	—	—	—	—	—	—	—	0.05	0.28	0.33	0.01	< 0.005	—	0.50
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	143	503	646	14.7	0.35	—	1,119

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,722	2,213	50.5	1.22	—	3,838

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	226	289	6.56	0.16	—	500
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	3.51	4.46	0.10	< 0.005	—	7.64
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	123	156	3.45	0.08	—	267
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	75.5	95.0	2.01	0.05	—	160
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	44.1	56.7	1.30	0.03	—	98.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	18.8	24.1	0.55	0.01	—	41.9
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	1.26	1.49	0.02	< 0.005	—	2.22
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	2,213	2,840	64.5	1.55	—	4,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	285	366	8.36	0.20	—	635
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	37.3	47.9	1.09	0.03	—	82.8
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.58	0.74	0.02	< 0.005	—	1.26
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	20.3	25.8	0.57	0.01	—	44.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	12.5	15.7	0.33	0.01	—	26.5
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	7.30	9.39	0.22	0.01	—	16.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	3.11	4.00	0.09	< 0.005	—	6.95
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.21	0.25	< 0.005	< 0.005	—	0.37
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	104	366	470	10.7	0.26	—	814

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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

User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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
User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,462,470	346	0.0330	0.0040	0.00
Medical Office Building	95,937	346	0.0330	0.0040	151,727
Supermarket	5,358,917	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	346	0.0330	0.0040	1,124,295
Supermarket	746,046	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,555,038	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	346	0.0330	0.0040	0.00
Industrial Park	3,460,731	346	0.0330	0.0040	0.00
Medical Office Building	95,889	346	0.0330	0.0040	151,727

Supermarket	3,536,697	346	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	346	0.0330	0.0040	1,124,295
Supermarket	492,364	346	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	346	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	346	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	346	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	346	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	346	0.0330	0.0040	439,296
Parking Lot	984,872	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	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)
Unrefrigerated Warehouse-No Rail	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

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APPENDIX 4.9:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION B WITH OVERLAY

15605-Harvest Landing Operations (Phase 2) VMT TL With IO 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 2) VMT TL With IO
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,406,019	—	—	Industrial Park
Industrial Park	348	1000sqft	7.99	348,262	21,788	—	—	Industrial Park (Overlay)

Other Asphalt Surfaces	30.7	Acre	30.7	0.00	0.00	—	—	—
User Defined Industrial	4,008	User Defined Unit	0.00	0.00	0.00	—	—	PC

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	185	173	331	539	3.53	8.11	167	175	7.79	43.9	51.7	4,454	428,640	433,094	464	52.7	1,200	461,590
Mit.	154	145	329	364	3.52	7.80	167	175	7.56	43.9	51.4	2,358	426,707	429,065	253	51.4	1,200	451,923
% Reduced	17%	17%	< 0.5%	32%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	45%	2%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	152	143	342	328	3.47	7.81	167	175	7.56	43.9	51.4	4,454	423,777	428,231	464	52.8	396	455,959

Mit.	152	143	342	328	3.47	7.81	167	175	7.56	43.9	51.4	2,358	422,480	424,838	253	51.6	396	446,930
% Reduced	—	—	—	—	—	—	—	—	—	—	—	47%	< 0.5%	1%	45%	2%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	153	144	271	383	3.00	5.33	146	151	5.06	38.2	43.2	4,454	372,493	376,948	463	46.8	686	403,150
Mit.	131	125	270	264	2.99	5.12	146	151	4.90	38.2	43.1	2,358	370,760	373,118	252	45.6	686	393,684
% Reduced	14%	14%	< 0.5%	31%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	46%	3%	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.9	26.3	49.5	69.9	0.55	0.97	26.6	27.5	0.92	6.97	7.89	737	61,670	62,408	76.7	7.74	114	66,746
Mit.	24.0	22.8	49.3	48.1	0.55	0.93	26.6	27.5	0.89	6.97	7.86	390	61,384	61,774	41.7	7.54	114	65,179
% Reduced	14%	14%	< 0.5%	31%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	46%	3%	—	2%

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	45.3	37.9	285	324	3.44	5.49	167	173	5.24	43.9	49.1	—	365,259	365,259	7.01	47.4	825	380,393
Area	122	120	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086

Total	185	173	331	539	3.53	8.11	167	175	7.79	43.9	51.7	4,454	428,640	433,094	464	52.7	1,200	461,590
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.7	36.3	298	288	3.40	5.49	167	173	5.24	43.9	49.1	—	361,113	361,113	7.15	47.5	21.4	375,482
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Total	152	143	342	328	3.47	7.81	167	175	7.56	43.9	51.4	4,454	423,777	428,231	464	52.8	396	455,959
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.0	31.5	264	258	2.98	4.80	146	150	4.58	38.2	42.8	—	316,293	316,293	6.26	41.6	312	329,158
Area	112	111	1.00	119	0.01	0.21	—	0.21	0.16	—	0.16	—	491	491	0.02	< 0.005	—	493
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,951	49,951	6.32	0.77	—	50,337
Water	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Waste	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	2.37	2.16	6.03	5.50	0.01	0.32	0.00	0.32	0.32	0.00	0.32	0.00	1,104	1,104	0.04	0.01	0.00	1,108
Total	153	144	271	383	3.00	5.33	146	151	5.06	38.2	43.2	4,454	372,493	376,948	463	46.8	686	403,150
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.93	5.74	48.2	47.1	0.54	0.88	26.6	27.4	0.84	6.97	7.81	—	52,366	52,366	1.04	6.89	51.6	54,496
Area	20.5	20.2	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,270	8,270	1.05	0.13	—	8,334
Water	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038
Waste	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Stationary	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183
Total	27.9	26.3	49.5	69.9	0.55	0.97	26.6	27.5	0.92	6.97	7.89	737	61,670	62,408	76.7	7.74	114	66,746

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	45.3	37.9	285	324	3.44	5.49	167	173	5.24	43.9	49.1	—	365,259	365,259	7.01	47.4	825	380,393
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	50,006	50,006	6.33	0.77	—	50,393
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Total	154	145	329	364	3.52	7.80	167	175	7.56	43.9	51.4	2,358	426,707	429,065	253	51.4	1,200	451,923
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	43.7	36.3	298	288	3.40	5.49	167	173	5.24	43.9	49.1	—	361,113	361,113	7.15	47.5	21.4	375,482
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,926	49,926	6.32	0.77	—	50,312
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086

Total	152	143	342	328	3.47	7.81	167	175	7.56	43.9	51.4	2,358	422,480	424,838	253	51.6	396	446,930
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.0	31.5	264	258	2.98	4.80	146	150	4.58	38.2	42.8	—	316,293	316,293	6.26	41.6	312	329,158
Area	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	49,981	49,981	6.32	0.77	—	50,367
Water	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Waste	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Stationary	2.37	2.16	6.03	5.50	0.01	0.32	0.00	0.32	0.32	0.00	0.32	0.00	1,104	1,104	0.04	0.01	0.00	1,108
Total	131	125	270	264	2.99	5.12	146	151	4.90	38.2	43.1	2,358	370,760	373,118	252	45.6	686	393,684
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.93	5.74	48.2	47.1	0.54	0.88	26.6	27.4	0.84	6.97	7.81	—	52,366	52,366	1.04	6.89	51.6	54,496
Area	16.6	16.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,275	8,275	1.05	0.13	—	8,339
Water	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478
Waste	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Stationary	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183
Total	24.0	22.8	49.3	48.1	0.55	0.93	26.6	27.5	0.89	6.97	7.86	390	61,384	61,774	41.7	7.54	114	65,179

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	11.4	6.03	273	73.4	2.89	5.27	110	115	5.04	29.3	34.3	—	309,126	309,126	4.78	45.9	707	323,638
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
User Defined Industrial	33.9	31.8	12.3	251	0.55	0.22	57.8	58.0	0.20	14.6	14.8	—	56,133	56,133	2.23	1.51	118	56,755
Total	45.3	37.9	285	324	3.44	5.49	167	173	5.24	43.9	49.1	—	365,259	365,259	7.01	47.4	825	380,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	11.2	5.88	285	73.6	2.89	5.27	110	115	5.04	29.3	34.3	—	309,181	309,181	4.78	45.9	18.3	323,011
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
User Defined Industrial	32.4	30.4	13.6	214	0.51	0.22	57.8	58.0	0.20	14.6	14.8	—	51,932	51,932	2.37	1.60	3.06	52,471
Total	43.7	36.3	298	288	3.40	5.49	167	173	5.24	43.9	49.1	—	361,113	361,113	7.15	47.5	21.4	375,482
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.81	0.95	46.0	11.7	0.46	0.84	17.4	18.2	0.80	4.66	5.46	—	44,758	44,758	0.69	6.65	44.2	46,802
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

User Defined Industrial	5.12	4.80	2.22	35.4	0.08	0.03	9.17	9.20	0.03	2.31	2.35	—	7,608	7,608	0.34	0.24	7.37	7,694
Total	6.93	5.74	48.2	47.1	0.54	0.88	26.6	27.4	0.84	6.97	7.81	—	52,366	52,366	1.04	6.89	51.6	54,496

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	11.4	6.03	273	73.4	2.89	5.27	110	115	5.04	29.3	34.3	—	309,126	309,126	4.78	45.9	707	323,638
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
User Defined Industrial	33.9	31.8	12.3	251	0.55	0.22	57.8	58.0	0.20	14.6	14.8	—	56,133	56,133	2.23	1.51	118	56,755
Total	45.3	37.9	285	324	3.44	5.49	167	173	5.24	43.9	49.1	—	365,259	365,259	7.01	47.4	825	380,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	11.2	5.88	285	73.6	2.89	5.27	110	115	5.04	29.3	34.3	—	309,181	309,181	4.78	45.9	18.3	323,011
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
User Defined Industrial	32.4	30.4	13.6	214	0.51	0.22	57.8	58.0	0.20	14.6	14.8	—	51,932	51,932	2.37	1.60	3.06	52,471
Total	43.7	36.3	298	288	3.40	5.49	167	173	5.24	43.9	49.1	—	361,113	361,113	7.15	47.5	21.4	375,482

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.81	0.95	46.0	11.7	0.46	0.84	17.4	18.2	0.80	4.66	5.46	—	44,758	44,758	0.69	6.65	44.2	46,802
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
User Defined Industrial	5.12	4.80	2.22	35.4	0.08	0.03	9.17	9.20	0.03	2.31	2.35	—	7,608	7,608	0.34	0.24	7.37	7,694
Total	6.93	5.74	48.2	47.1	0.54	0.88	26.6	27.4	0.84	6.97	7.81	—	52,366	52,366	1.04	6.89	51.6	54,496

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,951	49,951	6.32	0.77	—	50,337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	8,270	8,270	1.05	0.13	—	8,334
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,270	8,270	1.05	0.13	—	8,334

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	50,006	50,006	6.33	0.77	—	50,393
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	50,006	50,006	6.33	0.77	—	50,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	49,926	49,926	6.32	0.77	—	50,312
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	49,926	49,926	6.32	0.77	—	50,312
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	8,275	8,275	1.05	0.13	—	8,339
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,275	8,275	1.05	0.13	—	8,339

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	31.0	28.6	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Total	122	120	1.47	174	0.01	0.31	—	0.31	0.23	—	0.23	—	717	717	0.03	0.01	—	719
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.88	3.58	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6
Total	20.5	20.2	0.18	21.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	81.3	81.3	< 0.005	< 0.005	—	81.6

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	85.9	85.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.19	5.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	91.1	91.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.6	16.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,776	4,654	6,430	183	4.40	—	12,308
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	294	771	1,065	30.2	0.73	—	2,038

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,287	3,382	4,669	132	3.19	—	8,927
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	213	560	773	21.9	0.53	—	1,478

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,678	0.00	2,678	268	0.00	—	9,371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	0.00	443	44.3	0.00	—	1,551

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,071	0.00	1,071	107	0.00	—	3,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	177	0.00	177	17.7	0.00	—	621

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.0	62.0

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7

Fire Pump	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7
Total	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Fire Pump	8.66	7.88	22.0	20.1	0.04	1.16	0.00	1.16	1.16	0.00	1.16	0.00	4,030	4,030	0.16	0.03	0.00	4,043
Total	17.3	15.8	44.0	40.2	0.08	2.32	0.00	2.32	2.32	0.00	2.32	0.00	8,059	8,059	0.32	0.06	0.00	8,086
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7

Fire Pump	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	91.4	91.4	< 0.005	< 0.005	0.00	91.7
Total	0.43	0.39	1.10	1.00	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	183	183	0.01	< 0.005	0.00	183

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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
Industrial Park	2,082	1,570	765	664,650	114,842	86,586	42,183	36,655,443
Industrial Park	198	149	72.8	63,249	10,946	8,253	4,021	3,493,881
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	11,222	8,461	4,132	3,582,442	83,004	62,579	30,563	26,497,034

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	2,082	1,570	765	664,650	114,842	86,586	42,183	36,655,443
Industrial Park	198	149	72.8	63,249	10,946	8,253	4,021	3,493,881
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	11,222	8,461	4,132	3,582,442	83,004	62,579	30,563	26,497,034

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	6,011,933	2,003,978	80,133

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,836,655	261	0.0330	0.0040	0.00
Industrial Park	6,074,794	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,804,606	261	0.0330	0.0040	0.00
Industrial Park	6,071,744	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)

Industrial Park	846,304,006	38,149,142
Industrial Park	80,535,588	345,464
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	613,062,622	30,519,313
Industrial Park	58,339,980	276,371
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	4,538	—
Industrial Park	432	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	1,815	—
Industrial Park	173	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

Emergency Generator	Diesel	16.0	1.00	50.0	300	0.73
Fire Pump	Diesel	16.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—

Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702

Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—

Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater
Operations: Emergency Generators and Fire Pumps	Emergency Generators and Fire Pumps quantity based on average Emergency Generators and Fire Pumps for phase 1.

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APPENDIX 4.10:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PHASE 2 OPTION B WITHOUT OVERLAY

15605-Harvest Landing Operations (Phase 2) VMT TL Without IO 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 2) VMT TL Without IO
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Industrial Park	3,660	1000sqft	84.0	3,659,693	2,421,840	—	—	Industrial Park
Other Asphalt Surfaces	322	Acre	322	0.00	0.00	—	—	—

User Defined Industrial	3,660	User Defined Unit	0.00	0.00	0.00	—	—	PC

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	171	161	303	493	3.22	7.46	153	160	7.17	40.1	47.2	4,067	391,541	395,609	424	48.1	1,095	421,625
Mit.	143	135	302	334	3.21	7.18	153	160	6.96	40.1	47.0	2,153	389,774	391,927	231	47.0	1,095	412,795
% Reduced	17%	16%	< 0.5%	32%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	45%	2%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	141	133	314	301	3.17	7.18	153	160	6.96	40.1	47.0	4,067	387,099	391,167	424	48.2	362	416,482
Mit.	141	133	314	301	3.17	7.18	153	160	6.96	40.1	47.0	2,153	385,913	388,066	231	47.1	362	408,235

% Reduced	—	—	—	—	—	—	—	—	—	—	—	47%	< 0.5%	1%	45%	2%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	141	134	248	350	2.73	4.87	133	138	4.63	34.9	39.5	4,067	340,108	344,175	423	42.7	627	368,097
Mit.	122	116	247	241	2.73	4.68	133	138	4.48	34.9	39.3	2,153	338,523	340,676	230	41.6	627	359,451
% Reduced	14%	13%	< 0.5%	31%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	46%	3%	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.8	24.4	45.2	63.9	0.50	0.89	24.3	25.1	0.84	6.36	7.21	673	56,309	56,982	70.0	7.07	104	60,943
Mit.	22.3	21.2	45.0	44.0	0.50	0.85	24.3	25.1	0.82	6.36	7.18	356	56,046	56,403	38.1	6.89	104	59,511
% Reduced	14%	13%	< 0.5%	31%	< 0.5%	4%	—	< 0.5%	3%	—	< 0.5%	47%	< 0.5%	1%	46%	3%	—	2%

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	41.3	34.6	260	296	3.14	5.01	153	158	4.78	40.1	44.9	—	333,459	333,459	6.40	43.3	753	347,274
Area	113	111	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	171	161	303	493	3.22	7.46	153	160	7.17	40.1	47.2	4,067	391,541	395,609	424	48.1	1,095	421,625

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.9	33.1	272	263	3.10	5.01	153	158	4.79	40.1	44.9	—	329,672	329,672	6.52	43.4	19.5	342,788
Area	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	141	133	314	301	3.17	7.18	153	160	6.96	40.1	47.0	4,067	387,099	391,167	424	48.2	362	416,482
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	34.7	28.8	241	236	2.72	4.38	133	137	4.18	34.9	39.1	—	288,752	288,752	5.71	38.0	284	300,496
Area	105	103	0.92	109	0.01	0.19	—	0.19	0.15	—	0.15	—	448	448	0.02	< 0.005	—	450
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,611	45,611	5.77	0.70	—	45,963
Water	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Waste	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	2.22	2.02	5.65	5.16	0.01	0.30	0.00	0.30	0.30	0.00	0.30	0.00	1,035	1,035	0.04	0.01	0.00	1,038
Total	141	134	248	350	2.73	4.87	133	138	4.63	34.9	39.5	4,067	340,108	344,175	423	42.7	627	368,097
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.33	5.25	44.0	43.0	0.50	0.80	24.3	25.1	0.76	6.36	7.13	—	47,806	47,806	0.95	6.29	47.1	49,750
Area	19.1	18.8	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,551	7,551	0.96	0.12	—	7,610
Water	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863
Waste	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

Stationa	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172
Total	25.8	24.4	45.2	63.9	0.50	0.89	24.3	25.1	0.84	6.36	7.21	673	56,309	56,982	70.0	7.07	104	60,943

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.3	34.6	260	296	3.14	5.01	153	158	4.78	40.1	44.9	—	333,459	333,459	6.40	43.3	753	347,274
Area	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,661	45,661	5.78	0.70	—	46,014
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	143	135	302	334	3.21	7.18	153	160	6.96	40.1	47.0	2,153	389,774	391,927	231	47.0	1,095	412,795
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.9	33.1	272	263	3.10	5.01	153	158	4.79	40.1	44.9	—	329,672	329,672	6.52	43.4	19.5	342,788
Area	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,588	45,588	5.77	0.70	—	45,940
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Total	141	133	314	301	3.17	7.18	153	160	6.96	40.1	47.0	2,153	385,913	388,066	231	47.1	362	408,235

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	34.7	28.8	241	236	2.72	4.38	133	137	4.18	34.9	39.1	—	288,752	288,752	5.71	38.0	284	300,496
Area	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	45,638	45,638	5.77	0.70	—	45,991
Water	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Waste	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Stationary	2.22	2.02	5.65	5.16	0.01	0.30	0.00	0.30	0.30	0.00	0.30	0.00	1,035	1,035	0.04	0.01	0.00	1,038
Total	122	116	247	241	2.73	4.68	133	138	4.48	34.9	39.3	2,153	338,523	340,676	230	41.6	627	359,451
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.33	5.25	44.0	43.0	0.50	0.80	24.3	25.1	0.76	6.36	7.13	—	47,806	47,806	0.95	6.29	47.1	49,750
Area	15.5	15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,556	7,556	0.96	0.12	—	7,614
Water	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351
Waste	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Stationary	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172
Total	22.3	21.2	45.0	44.0	0.50	0.85	24.3	25.1	0.82	6.36	7.18	356	56,046	56,403	38.1	6.89	104	59,511

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	10.4	5.51	249	67.1	2.63	4.81	100	105	4.60	26.7	31.3	—	282,185	282,185	4.36	41.9	646	295,432
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
User Defined Industrial	30.9	29.1	11.3	229	0.51	0.20	52.8	53.0	0.18	13.3	13.5	—	51,274	51,274	2.03	1.38	108	51,842
Total	41.3	34.6	260	296	3.14	5.01	153	158	4.78	40.1	44.9	—	333,459	333,459	6.40	43.3	753	347,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	10.3	5.37	260	67.2	2.63	4.81	100	105	4.60	26.7	31.3	—	282,235	282,235	4.36	41.9	16.8	294,859
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
User Defined Industrial	29.6	27.8	12.4	196	0.47	0.20	52.8	53.0	0.18	13.3	13.5	—	47,436	47,436	2.17	1.46	2.79	47,929
Total	39.9	33.1	272	263	3.10	5.01	153	158	4.79	40.1	44.9	—	329,672	329,672	6.52	43.4	19.5	342,788
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.65	0.87	42.0	10.7	0.42	0.77	15.9	16.7	0.73	4.25	4.98	—	40,857	40,857	0.63	6.07	40.4	42,723
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
User Defined Industrial	4.68	4.38	2.03	32.3	0.08	0.03	8.37	8.41	0.03	2.11	2.14	—	6,949	6,949	0.31	0.22	6.73	7,028
Total	6.33	5.25	44.0	43.0	0.50	0.80	24.3	25.1	0.76	6.36	7.13	—	47,806	47,806	0.95	6.29	47.1	49,750

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	10.4	5.51	249	67.1	2.63	4.81	100	105	4.60	26.7	31.3	—	282,185	282,185	4.36	41.9	646	295,432
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
User Defined Industrial	30.9	29.1	11.3	229	0.51	0.20	52.8	53.0	0.18	13.3	13.5	—	51,274	51,274	2.03	1.38	108	51,842
Total	41.3	34.6	260	296	3.14	5.01	153	158	4.78	40.1	44.9	—	333,459	333,459	6.40	43.3	753	347,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	10.3	5.37	260	67.2	2.63	4.81	100	105	4.60	26.7	31.3	—	282,235	282,235	4.36	41.9	16.8	294,859
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
User Defined Industrial	29.6	27.8	12.4	196	0.47	0.20	52.8	53.0	0.18	13.3	13.5	—	47,436	47,436	2.17	1.46	2.79	47,929
Total	39.9	33.1	272	263	3.10	5.01	153	158	4.79	40.1	44.9	—	329,672	329,672	6.52	43.4	19.5	342,788
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.65	0.87	42.0	10.7	0.42	0.77	15.9	16.7	0.73	4.25	4.98	—	40,857	40,857	0.63	6.07	40.4	42,723

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
User Defined Industrial	4.68	4.38	2.03	32.3	0.08	0.03	8.37	8.41	0.03	2.11	2.14	—	6,949	6,949	0.31	0.22	6.73	7,028
Total	6.33	5.25	44.0	43.0	0.50	0.80	24.3	25.1	0.76	6.36	7.13	—	47,806	47,806	0.95	6.29	47.1	49,750

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,611	45,611	5.77	0.70	—	45,963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,551	7,551	0.96	0.12	—	7,610
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,551	7,551	0.96	0.12	—	7,610

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,661	45,661	5.78	0.70	—	46,014
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	45,661	45,661	5.78	0.70	—	46,014
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,588	45,588	5.77	0.70	—	45,940
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	45,588	45,588	5.77	0.70	—	45,940
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,556	7,556	0.96	0.12	—	7,614
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,556	7,556	0.96	0.12	—	7,614

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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	79.4	79.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.72	5.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	28.3	26.2	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Total	113	111	1.34	159	0.01	0.28	—	0.28	0.21	—	0.21	—	655	655	0.03	0.01	—	657
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	79.4	79.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	5.72	5.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.04	1.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.54	3.27	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5
Total	19.1	18.8	0.17	19.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	74.2	74.2	< 0.005	< 0.005	—	74.5

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	79.4	79.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.72	5.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	79.4	79.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.72	5.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	85.1	85.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.04	1.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	15.5	15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,622	4,262	5,884	167	4.02	—	11,251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	268	706	974	27.6	0.66	—	1,863

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,175	3,098	4,273	121	2.91	—	8,161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	194	513	707	20.0	0.48	—	1,351

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,446	0.00	2,446	244	0.00	—	8,557
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	405	0.00	405	40.5	0.00	—	1,417

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	978	0.00	978	97.8	0.00	—	3,423
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	567

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	342	342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	56.7

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0

Fire Pump	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0
Total	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Fire Pump	8.11	7.38	20.6	18.8	0.04	1.09	0.00	1.09	1.09	0.00	1.09	0.00	3,778	3,778	0.15	0.03	0.00	3,790
Total	16.2	14.8	41.3	37.7	0.07	2.17	0.00	2.17	2.17	0.00	2.17	0.00	7,556	7,556	0.30	0.06	0.00	7,581
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0

Fire Pump	0.20	0.18	0.52	0.47	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	85.7	85.7	< 0.005	< 0.005	0.00	86.0
Total	0.41	0.37	1.03	0.94	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	171	171	0.01	< 0.005	0.00	172

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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
Industrial Park	2,082	1,570	765	664,650	114,842	86,586	42,183	36,655,443
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,251	7,726	3,773	3,272,108	75,819	57,141	27,908	24,201,693

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	2,082	1,570	765	664,650	114,842	86,586	42,183	36,655,443
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	10,251	7,726	3,773	3,272,108	75,819	57,141	27,908	24,201,693

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	5,489,540	1,829,847	841,786

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,836,655	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	63,804,606	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)
Industrial Park	846,304,006	38,399,995
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Industrial Park	613,062,622	30,719,996
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	4,538	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	1,815	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Industrial Park	Other commercial A/C and heat pumps	User Defined	750	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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	15.0	1.00	50.0	300	0.73
Fire Pump	Diesel	15.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0

Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—

Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9

Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3

Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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
Construction: Construction Phases	Construction schedule adjusted based on 2030 OY

Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks.
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural Gas will not be utilized
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater
Operations: Emergency Generators and Fire Pumps	Emergency Generators and Fire Pumps quantity based on average Emergency Generators and Fire Pumps for phase 1.

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APPENDIX 4.11:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS – PROJECT BUILDOUT (PHASE 1) OPTION B

15605-Harvest Landing Operations (Phase 1) Project Buildout VMT TL 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

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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	15605-Harvest Landing Operations (Phase 1) Project Buildout VMT TL
Operational Year	2030
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.815992, -117.23286
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
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
Unrefrigerated Warehouse-No Rail	1,207	1000sqft	27.7	1,207,000	523,530	—	—	TUMF High Cube (Building 2, 6, and 7)

Unrefrigerated Warehouse-No Rail	322	1000sqft	7.39	322,079	545,221	—	—	Parcel Hub (Building 1)
Industrial Park	199	1000sqft	4.56	198,500	170,328	—	—	General Light Industrial (Building 3, 4, and 5)
Medical Office Building	5.50	1000sqft	0.13	5,500	4,359	—	—	Medical Office Building
Supermarket	167	1000sqft	3.83	167,050	132,388	—	—	Large Format Retail Anchor
Regional Shopping Center	190	1000sqft	4.36	189,845	150,454	—	—	Shopping Center
Supermarket	23.3	1000sqft	0.53	23,256	18,431	—	—	Supermarket
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.21	8,934	7,080	—	—	Fast Casual Restaurant
High Turnover (Sit Down Restaurant)	21.1	1000sqft	0.48	21,122	16,739	—	—	High-Turnover (Sit -Down) Restaurant
Fast Food Restaurant with Drive Thru	11.0	1000sqft	0.25	11,000	8,718	—	—	Fast Food Restaurant w DT
Fast Food Restaurant with Drive Thru	1.80	1000sqft	0.04	1,800	1,427	—	—	Coffee/Donut Shop w DT
Gasoline/Service Station	12.0	Pump	0.04	10,228	8,106	—	—	Gasoline/Service Station (12 VFP)
Parking Lot	3,286	Space	25.8	0.00	0.00	—	—	—
Other Asphalt Surfaces	160	Acre	160	0.00	0.00	—	—	—
User Defined Industrial	1,728	User Defined Unit	0.00	0.00	0.00	—	—	PC Trips

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances

Water	W-4	Require Low-Flow Water Fixtures
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

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.	204	193	158	857	2.51	3.62	192	196	3.46	49.1	52.6	2,765	278,692	281,457	291	21.7	2,132	297,315
Mit.	187	178	157	762	2.50	3.46	192	196	3.33	49.1	52.5	1,487	276,057	277,543	162	21.1	2,132	290,001
% Reduced	8%	8%	1%	11%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	1%	44%	3%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	2,765	267,247	270,012	291	21.9	1,568	285,401
Mit.	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	1,487	264,955	266,442	163	21.3	1,568	278,432
% Reduced	—	—	—	—	—	—	—	—	—	—	—	46%	1%	1%	44%	3%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	164	156	132	631	2.03	2.49	160	163	2.36	40.9	43.3	2,765	229,122	231,886	290	19.3	1,764	246,652
Mit.	153	145	132	566	2.02	2.38	160	163	2.27	40.9	43.2	1,487	226,595	228,081	161	18.7	1,764	239,447
% Reduced	7%	7%	< 0.5%	10%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.0	28.4	24.1	115	0.37	0.45	29.2	29.7	0.43	7.47	7.90	458	37,934	38,391	47.9	3.20	292	40,836
Mit.	27.9	26.5	24.0	103	0.37	0.43	29.2	29.7	0.41	7.47	7.89	246	37,515	37,761	26.6	3.10	292	39,643
% Reduced	7%	7%	< 0.5%	10%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	46%	1%	2%	44%	3%	—	3%

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	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Area	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	204	193	158	857	2.51	3.62	192	196	3.46	49.1	52.6	2,765	278,692	281,457	291	21.7	2,132	297,315
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553

Stationa	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	2,765	267,247	270,012	291	21.9	1,568	285,401
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	101	93.9	127	562	2.00	2.06	160	162	1.95	40.9	42.9	—	207,909	207,909	8.43	17.0	212	213,385
Area	61.9	61.0	0.54	64.5	< 0.005	0.11	—	0.11	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	18,245	18,245	2.19	0.24	—	18,370
Water	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Waste	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415
Total	164	156	132	631	2.03	2.49	160	163	2.36	40.9	43.3	2,765	229,122	231,886	290	19.3	1,764	246,652
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328
Area	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	3,021	3,021	0.36	0.04	—	3,041
Water	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995
Waste	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	30.0	28.4	24.1	115	0.37	0.45	29.2	29.7	0.43	7.47	7.90	458	37,934	38,391	47.9	3.20	292	40,836

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,618	16,618	1.98	0.21	—	16,731
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	187	178	157	762	2.50	3.46	192	196	3.33	49.1	52.5	1,487	276,057	277,543	162	21.1	2,132	290,001
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,575	16,575	1.98	0.21	—	16,687
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Total	180	171	165	673	2.39	3.46	192	196	3.33	49.1	52.5	1,487	264,955	266,442	163	21.3	1,568	278,432
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	101	93.9	127	562	2.00	2.06	160	162	1.95	40.9	42.9	—	207,909	207,909	8.43	17.0	212	213,385
Area	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	16,605	16,605	1.98	0.21	—	16,717
Water	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Waste	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Stationary	0.89	0.81	2.26	2.06	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	414	414	0.02	< 0.005	0.00	415

Total	153	145	132	566	2.02	2.38	160	163	2.27	40.9	43.2	1,487	226,595	228,081	161	18.7	1,764	239,447
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328
Area	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,749	2,749	0.33	0.04	—	2,768
Water	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723
Waste	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257
Stationary	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8
Total	27.9	26.5	24.0	103	0.37	0.43	29.2	29.7	0.41	7.47	7.89	246	37,515	37,761	26.6	3.10	292	39,643

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	2.26	1.20	54.1	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,214	61,214	0.95	9.09	140	64,086
Industrial Park	0.46	0.24	10.9	2.93	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,325	12,325	0.19	1.83	28.2	12,904

Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636
High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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
User Defined Industrial	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	2.23	1.17	56.4	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,224	61,224	0.95	9.09	3.64	63,962
Industrial Park	0.45	0.24	11.4	2.94	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,327	12,327	0.19	1.83	0.73	12,879
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085
Supermarket	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regional Shopping Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasoline/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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
User Defined Industrial	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788

Total	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.36	0.19	9.22	2.35	0.09	0.17	3.49	3.66	0.16	0.93	1.10	—	8,975	8,975	0.14	1.33	8.88	9,385
Industrial Park	0.08	0.04	1.98	0.50	0.02	0.04	0.75	0.79	0.03	0.20	0.24	—	1,928	1,928	0.03	0.29	1.91	2,016
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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
User Defined Industrial	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.26	1.20	54.1	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,214	61,214	0.95	9.09	140	64,086
Industrial Park	0.46	0.24	10.9	2.93	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,325	12,325	0.19	1.83	28.2	12,904
Medical Office Building	0.66	0.62	0.44	4.27	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,136	1,136	0.05	0.05	2.63	1,156
Supermarket	43.2	40.5	27.1	255	0.65	0.43	59.9	60.3	0.40	15.2	15.6	—	66,020	66,020	2.96	3.11	152	67,173
Regional Shopping Center	29.5	27.5	19.9	191	0.50	0.33	46.3	46.6	0.31	11.7	12.1	—	50,776	50,776	2.13	2.31	117	51,636

High Turnover (Sit Down Restaurant)	12.5	11.8	7.73	72.6	0.18	0.12	16.9	17.0	0.11	4.29	4.40	—	18,647	18,647	0.85	0.89	42.8	18,975
Fast Food Restaurant with Drive Thru	22.9	21.9	10.6	91.0	0.19	0.14	17.1	17.3	0.13	4.35	4.47	—	19,550	19,550	1.28	1.14	43.4	19,965
Gasoline/Service Station	6.41	6.15	2.86	24.1	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,981	4,981	0.35	0.30	11.0	5,091
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
User Defined Industrial	12.1	11.4	4.42	89.7	0.20	0.08	20.7	20.8	0.07	5.22	5.29	—	20,099	20,099	0.80	0.54	42.2	20,322
Total	130	121	138	745	2.46	2.39	192	195	2.26	49.1	51.4	—	254,749	254,749	9.55	19.3	580	261,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.23	1.17	56.4	14.6	0.57	1.04	21.7	22.8	1.00	5.81	6.81	—	61,224	61,224	0.95	9.09	3.64	63,962
Industrial Park	0.45	0.24	11.4	2.94	0.12	0.21	4.37	4.58	0.20	1.17	1.37	—	12,327	12,327	0.19	1.83	0.73	12,879
Medical Office Building	0.63	0.58	0.48	3.68	0.01	0.01	1.04	1.04	0.01	0.26	0.27	—	1,068	1,068	0.05	0.05	0.07	1,085

Superm	40.8	38.0	28.9	223	0.61	0.43	59.9	60.3	0.40	15.2	15.6	—	62,080	62,080	3.12	3.21	3.94	63,118
Regional Shopping Center	27.9	25.9	21.2	164	0.47	0.33	46.3	46.6	0.31	11.7	12.1	—	47,728	47,728	2.23	2.39	3.04	48,498
High Turnover (Sit Down Restaurant)	11.8	11.1	8.27	63.5	0.17	0.12	16.9	17.0	0.11	4.29	4.40	—	17,536	17,536	0.90	0.91	1.11	17,832
Fast Food Restaurant with Drive Thru	21.6	20.6	11.3	84.7	0.18	0.14	17.1	17.3	0.13	4.35	4.47	—	18,433	18,433	1.39	1.18	1.13	18,819
Gasoline/Service Station	6.04	5.76	3.05	22.6	0.05	0.04	4.33	4.36	0.03	1.10	1.13	—	4,699	4,699	0.38	0.31	0.28	4,802
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
User Defined Industrial	11.6	10.9	4.85	76.8	0.18	0.08	20.7	20.8	0.07	5.22	5.29	—	18,595	18,595	0.85	0.57	1.09	18,788
Total	123	114	146	656	2.35	2.39	192	195	2.26	49.1	51.4	—	243,691	243,691	10.1	19.5	15.0	249,783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.36	0.19	9.22	2.35	0.09	0.17	3.49	3.66	0.16	0.93	1.10	—	8,975	8,975	0.14	1.33	8.88	9,385

Industrial Park	0.08	0.04	1.98	0.50	0.02	0.04	0.75	0.79	0.03	0.20	0.24	—	1,928	1,928	0.03	0.29	1.91	2,016
Medical Office Building	0.09	0.08	0.07	0.54	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	138	138	0.01	0.01	0.15	140
Supermarket	6.18	5.76	4.49	35.2	0.09	0.07	9.13	9.19	0.06	2.32	2.38	—	8,708	8,708	0.43	0.45	9.11	8,862
Regional Shopping Center	3.88	3.59	3.02	23.8	0.07	0.05	6.46	6.50	0.04	1.64	1.68	—	6,127	6,127	0.28	0.31	6.44	6,232
High Turnover (Sit Down Restaurant)	1.81	1.69	1.29	10.1	0.03	0.02	2.60	2.61	0.02	0.66	0.68	—	2,480	2,480	0.13	0.13	2.59	2,524
Fast Food Restaurant with Drive Thru	3.19	3.04	1.71	13.0	0.03	0.02	2.55	2.57	0.02	0.65	0.67	—	2,524	2,524	0.19	0.16	2.54	2,579
Gasoline/Service Station	1.03	0.98	0.53	4.01	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	744	744	0.06	0.05	0.74	761
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
User Defined Industrial	1.88	1.76	0.82	13.0	0.03	0.01	3.37	3.38	0.01	0.85	0.86	—	2,798	2,798	0.13	0.09	2.71	2,830
Total	18.5	17.1	23.1	103	0.37	0.38	29.2	29.6	0.36	7.47	7.83	—	34,422	34,422	1.40	2.81	35.1	35,328

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	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,474	2,474	0.31	0.04	—	2,493
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.1
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	4,362	4,362	0.55	0.07	—	4,396

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	1,324	1,324	0.17	0.02	—	1,334
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	754	754	0.10	0.01	—	760
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	321	321	0.04	< 0.005	—	324
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	15,105	15,105	1.91	0.23	—	15,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	832	832	0.11	0.01	—	839
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	722	722	0.09	0.01	—	728
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	219	219	0.03	< 0.005	—	221
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	53.2	53.2	0.01	< 0.005	—	53.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,501	2,501	0.32	0.04	—	2,520

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,059	5,059	0.64	0.08	—	5,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,477	2,477	0.31	0.04	—	2,496
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.6	68.6	0.01	< 0.005	—	69.2
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,883	2,883	0.36	0.04	—	2,905
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,310	1,310	0.17	0.02	—	1,320
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	642
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.4

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,478	13,478	1.71	0.21	—	13,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,028	5,028	0.64	0.08	—	5,067
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	2,473	2,473	0.31	0.04	—	2,492
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	—	69.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	2,879	2,879	0.36	0.04	—	2,901
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,306	1,306	0.17	0.02	—	1,316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	637	637	0.08	0.01	—	641

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	69.7	69.7	0.01	< 0.005	—	70.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	704	704	0.09	0.01	—	709
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,435	13,435	1.70	0.21	—	13,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	836	836	0.11	0.01	—	842
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	410	410	0.05	0.01	—	413
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11.4	11.4	< 0.005	< 0.005	—	11.4
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	477	477	0.06	0.01	—	481
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	217	217	0.03	< 0.005	—	218

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	105	105	0.01	< 0.005	—	106
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	44.9	44.9	0.01	< 0.005	—	45.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.01	< 0.005	—	117
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,229	2,229	0.28	0.03	—	2,246

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

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7

Gasoline/Servic	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027

Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Industrial 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
Medical Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.6	48.6	< 0.005	< 0.005	—	48.8
Supermarket	0.09	0.05	0.86	0.72	0.01	0.07	—	0.07	0.07	—	0.07	—	1,024	1,024	0.09	< 0.005	—	1,027
Regional Shopping Center	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	360	360	0.03	< 0.005	—	361
High Turnover (Sit Down Restaurant)	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,099	1,099	0.10	< 0.005	—	1,102
Fast Food Restaurant with Drive Thru	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	468	468	0.04	< 0.005	—	469
Gasoline/Service Station	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
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
User Defined Industrial	0.00	0.00	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	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	3,140	3,140	0.28	0.01	—	3,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial 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
Medical Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05	8.05	< 0.005	< 0.005	—	8.07
Supermarket	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	169	169	0.01	< 0.005	—	170
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.7	59.7	0.01	< 0.005	—	59.8
High Turnover (Sit Down Restaurant)	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	182	182	0.02	< 0.005	—	182
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	0.01	< 0.005	—	77.7
Gasoline/Service Station	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
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
User Defined Industrial	0.00	0.00	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	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	520	520	0.05	< 0.005	—	521

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	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.5	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Total	67.1	65.8	0.79	94.2	0.01	0.17	—	0.17	0.13	—	0.13	—	387	387	0.02	< 0.005	—	389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.10	1.94	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Total	11.3	11.1	0.10	11.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	47.0	47.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.37	3.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	50.4	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.58	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.19	9.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	678	1,784	2,462	69.7	1.68	—	4,704
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	88.0	234	321	9.05	0.22	—	613
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	1.32	3.62	4.94	0.14	< 0.005	—	9.32
Supermarket	—	—	—	—	—	—	—	—	—	—	—	45.0	123	168	4.62	0.11	—	317
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	26.9	77.4	104	2.77	0.07	—	194
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	17.5	45.8	63.3	1.80	0.04	—	121
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.45	19.5	27.0	0.77	0.02	—	51.6
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.31	1.26	1.57	0.03	< 0.005	—	2.58
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	864	2,288	3,152	88.9	2.14	—	6,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	112	295	408	11.5	0.28	—	779
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.6	38.7	53.2	1.50	0.04	—	101
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.22	0.60	0.82	0.02	< 0.005	—	1.54
Supermarket	—	—	—	—	—	—	—	—	—	—	—	7.44	20.4	27.8	0.77	0.02	—	52.5
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	4.46	12.8	17.3	0.46	0.01	—	32.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.89	7.58	10.5	0.30	0.01	—	20.1
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.23	3.23	4.46	0.13	< 0.005	—	8.54

Gasoline/Servic	—	—	—	—	—	—	—	—	—	—	—	0.05	0.21	0.26	0.01	< 0.005	—	0.43
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	143	379	522	14.7	0.35	—	995

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.91
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	491	1,297	1,788	50.5	1.22	—	3,413

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	63.7	170	234	6.56	0.16	—	445
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.96	2.64	3.60	0.10	< 0.005	—	6.77
Supermarket	—	—	—	—	—	—	—	—	—	—	—	33.5	92.3	126	3.45	0.08	—	237
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	56.9	76.4	2.01	0.05	—	141
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	12.6	33.2	45.8	1.30	0.03	—	87.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.38	14.1	19.5	0.55	0.01	—	37.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.22	0.95	1.17	0.02	< 0.005	—	1.91
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	627	1,667	2,294	64.5	1.55	—	4,369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.3	215	296	8.36	0.20	—	565
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10.5	28.1	38.7	1.09	0.03	—	73.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	0.16	0.44	0.60	0.02	< 0.005	—	1.12
Supermarket	—	—	—	—	—	—	—	—	—	—	—	5.55	15.3	20.8	0.57	0.01	—	39.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	9.41	12.7	0.33	0.01	—	23.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2.09	5.50	7.59	0.22	0.01	—	14.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.89	2.34	3.23	0.09	< 0.005	—	6.18
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.04	0.16	0.19	< 0.005	< 0.005	—	0.32
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	104	276	380	10.7	0.26	—	723

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	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	775	0.00	775	77.4	0.00	—	2,710
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	32.0	0.00	32.0	3.20	0.00	—	112
Supermarket	—	—	—	—	—	—	—	—	—	—	—	578	0.00	578	57.8	0.00	—	2,024

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	107	0.00	107	10.7	0.00	—	376
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	193	0.00	193	19.3	0.00	—	674
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	79.5	0.00	79.5	7.94	0.00	—	278
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,901	0.00	1,901	190	0.00	—	6,651
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	76.8

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.30	0.00	5.30	0.53	0.00	—	18.5
Supermarket	—	—	—	—	—	—	—	—	—	—	—	95.8	0.00	95.8	9.57	0.00	—	335
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	17.8	0.00	17.8	1.78	0.00	—	62.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.2	0.00	13.2	1.31	0.00	—	46.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.02
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,101

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10

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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	0.00	310	31.0	0.00	—	1,084
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	53.1	0.00	53.1	5.30	0.00	—	186
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	—	56.0
Supermarket	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	53.7	0.00	53.7	5.37	0.00	—	188
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.4	0.00	96.4	9.63	0.00	—	337

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	39.7	0.00	39.7	3.97	0.00	—	139
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.10
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	860	0.00	860	85.9	0.00	—	3,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.3	0.00	51.3	5.13	0.00	—	179
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8.78	0.00	8.78	0.88	0.00	—	30.7
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	2.65	0.00	2.65	0.26	0.00	—	9.27
Supermarket	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	8.89	0.00	8.89	0.89	0.00	—	31.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.59	0.00	—	55.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.58	0.00	6.58	0.66	0.00	—	23.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
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
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	498

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,509	1,509
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.72	0.72
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.18	7.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,553	1,553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.07	3.07
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Supermarket	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	250	250

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.79	2.79
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	257	257

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.79	3.45	9.63	8.79	0.02	0.51	0.00	0.51	0.51	0.00	0.51	0.00	1,763	1,763	0.07	0.01	0.00	1,769
Emergency Generator	2.70	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	0.00	1,259	1,259	0.05	0.01	0.00	1,263
Total	6.49	5.91	16.5	15.1	0.03	0.87	0.00	0.87	0.87	0.00	0.87	0.00	3,022	3,022	0.12	0.02	0.00	3,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.09	0.09	0.24	0.22	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	40.0	40.0	< 0.005	< 0.005	0.00	40.1
Emergency Generator	0.07	0.06	0.17	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.16	0.15	0.41	0.38	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	68.5	68.5	< 0.005	< 0.005	0.00	68.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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

User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	267	127	119	82,384	14,703	6,986	6,586	4,540,994
Unrefrigerated Warehouse-No Rail	186	149	147	63,902	10,238	8,215	8,109	3,520,340
Industrial Park	90.9	73.8	72.8	31,351	5,017	4,075	4,020	1,729,961
Medical Office Building	198	75.8	6.27	55,900	1,464	561	46.4	413,459
Supermarket	8,439	10,661	9,291	3,240,641	53,794	67,956	59,224	20,656,304
Regional Shopping Center	7,026	8,847	3,601	2,480,903	51,968	65,434	26,637	18,349,652
Supermarket	2,182	2,622	2,382	829,842	13,907	16,713	15,181	5,288,925
High Turnover (Sit Down Restaurant)	868	868	868	316,830	5,340	5,340	5,340	1,949,243
High Turnover (Sit Down Restaurant)	2,264	2,585	3,013	882,179	13,936	15,913	18,545	5,430,035
Fast Food Restaurant with Drive Thru	5,142	6,777	5,198	1,965,027	16,084	21,199	16,260	6,146,585
Fast Food Restaurant with Drive Thru	960	960	960	350,398	3,000	3,000	3,000	1,095,018
Gasoline/Service Station	2,064	2,186	2,003	756,526	5,774	6,116	5,602	2,116,355
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
User Defined Industrial	4,018	2,626	2,548	1,317,433	29,721	19,422	18,847	9,744,212

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	3,249,471	1,083,157	485,764

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,462,470	261	0.0330	0.0040	0.00
Medical Office Building	95,937	261	0.0330	0.0040	151,727
Supermarket	5,358,917	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,852,582	261	0.0330	0.0040	1,124,295
Supermarket	746,046	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	313,717	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	741,697	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	386,264	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	63,207	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,872	261	0.0330	0.0040	439,296
Parking Lot	984,872	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,555,038	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,482,321	261	0.0330	0.0040	0.00
Industrial Park	3,460,731	261	0.0330	0.0040	0.00
Medical Office Building	95,889	261	0.0330	0.0040	151,727

Supermarket	3,536,697	261	0.0330	0.0040	2,803,892
Regional Shopping Center	1,827,696	261	0.0330	0.0040	1,124,295
Supermarket	492,364	261	0.0330	0.0040	390,346
High Turnover (Sit Down Restaurant)	264,822	261	0.0330	0.0040	1,019,002
High Turnover (Sit Down Restaurant)	626,100	261	0.0330	0.0040	2,409,150
Fast Food Restaurant with Drive Thru	326,063	261	0.0330	0.0040	1,254,647
Fast Food Restaurant with Drive Thru	53,356	261	0.0330	0.0040	205,306
Gasoline/Service Station	97,555	261	0.0330	0.0040	439,296
Parking Lot	984,872	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	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)
Unrefrigerated Warehouse-No Rail	279,118,750	8,300,940
Unrefrigerated Warehouse-No Rail	74,480,769	8,644,867
Industrial Park	45,903,125	2,700,672
Medical Office Building	690,143	69,115
Supermarket	20,591,955	2,099,106
Regional Shopping Center	14,062,298	2,385,555
Supermarket	2,866,726	292,237
High Turnover (Sit Down Restaurant)	2,711,770	112,258
High Turnover (Sit Down Restaurant)	6,411,239	265,409
Fast Food Restaurant with Drive Thru	3,338,871	138,230

Fast Food Restaurant with Drive Thru	546,361	22,626
Gasoline/Service Station	159,383	128,526
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	202,193,623	6,640,752
Unrefrigerated Warehouse-No Rail	53,953,869	6,915,893
Industrial Park	33,252,224	2,160,537
Medical Office Building	499,940	55,292
Supermarket	15,348,420	1,679,285
Regional Shopping Center	10,203,603	1,908,444
Supermarket	2,136,743	233,789
High Turnover (Sit Down Restaurant)	1,958,983	89,807
High Turnover (Sit Down Restaurant)	4,631,479	212,327
Fast Food Restaurant with Drive Thru	2,412,000	110,584
Fast Food Restaurant with Drive Thru	394,691	18,101
Gasoline/Service Station	115,648	102,821
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Unrefrigerated Warehouse-No Rail	1,135	—
Unrefrigerated Warehouse-No Rail	303	—
Industrial Park	246	—
Medical Office Building	59.4	—
Supermarket	942	—
Regional Shopping Center	199	—
Supermarket	131	—
High Turnover (Sit Down Restaurant)	106	—
High Turnover (Sit Down Restaurant)	251	—
Fast Food Restaurant with Drive Thru	127	—
Fast Food Restaurant with Drive Thru	20.7	—
Gasoline/Service Station	6.47	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454	—
Unrefrigerated Warehouse-No Rail	121	—
Industrial Park	98.5	—
Medical Office Building	29.7	—
Supermarket	471	—
Regional Shopping Center	99.7	—
Supermarket	65.6	—
High Turnover (Sit Down Restaurant)	53.2	—
High Turnover (Sit Down Restaurant)	126	—
Fast Food Restaurant with Drive Thru	63.4	—

Fast Food Restaurant with Drive Thru	10.4	—
Gasoline/Service Station	3.23	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	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
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Supermarket	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	User Defined	150	26.5	16.5	16.5	18.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	7.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	5.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.36	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	4	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	4	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	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9
Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100
Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—

Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4

English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3
Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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	Other Asphalt Surfaces represents the following uses: Water Quality Basin: 13.08 Acres Roads: 35.09 Acres Remaining Site Area: 111.88 Acres
Construction: Construction Phases	Construction schedule adjusted Schedule compressed based on Opening Year of 2026 and Demolition, Site prep, Grading and Building construction dates adjusted based on ratio of default schedule. Paving and architectural coating work days are based on defaults
Construction: Off-Road Equipment	Standard 8-hour work day Given the compressed construction schedule versus CalEEMod defaults, the quantity of construction equipment was increased in order to provide for a conservative analysis Equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards, pursuant to the City of Perris Good Neighbor Guidelines for Siting New and/or Modified Industrial Facilities
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction. Demolition debris will be transported to El Sobrante Landfill, approximately 25 roadway miles from the site
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip Rates taken from trip generation Pass-by adjusted to be consistent with trip generation Trip lengths adjusted per Streetlight Data available in the VMT assessment
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Natural gas will not be utilized for the industrial Portion of the project. Commercial Portion will utilize Natural Gas
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

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APPENDIX 4.12:

EMFAC2021

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2025
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	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	6.232252524	303.889871	0.078875502	78.87550173	324061.9332	303.889871	2014903.459	6.22	HHDT
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	15281.49903	1950611.476	315.5182536	315518.2536		1950611.476			
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	103.9487733	11894.93596	0	0		11894.93596			
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	781.6601067	52093.15724	8.464804133	8464.804133		52093.15724			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Gasoline	469318.5342	20373765.83	673.3165394	673316.5394	685799.5767	20373765.83	22281991.59	32.49	LDA
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Diesel	1383.809245	49996.02059	1.157204906	1157.204906		49996.02059			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Electricity	23756.17576	1153396.904	0	0		1153396.904			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Plug-in Hybric	14087.23202	704832.8394	11.32583244	11325.83244		704832.8394			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Gasoline	39844.42885	1499609.575	59.92078241	59920.78241	59994.79347	1499609.575	1508277.871	25.14	LDT1
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Diesel	16.26032827	298.1728862	0.012131898	12.13189805		298.1728862			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Electricity	84.57619148	4089.475353	0	0		4089.475353			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Plug-in Hybric	76.19034646	4280.647946	0.061879155	61.87915548		4280.647946			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Gasoline	201900.7772	8973973.952	360.0165635	360016.5635	362521.4419	8973973.952	9168424.554	25.29	LDT2
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Diesel	648.0824816	30519.42791	0.906087045	906.0870448		30519.42791			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Electricity	1658.408696	58637.73041	0	0		58637.73041			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Plug-in Hybric	1963.286623	105293.4446	1.598791388	1598.791388		105293.4446			
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Gasoline	17598.36242	652458.21	46.82732866	46827.32866	73403.79877	652458.21	1212550.7	16.52	LHDT1
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Diesel	15075.59282	549831.8274	26.5764701	26576.4701		549831.8274			
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Electricity	149.6982853	10260.66293	0	0		10260.66293			
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2462.303572	88408.90183	7.133200743	7133.200743	21661.35468	88408.90183	341190.0394	15.75	LHDT2
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	6820.445818	250292.8301	14.52815394	14528.15394		250292.8301			
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	38.18158868	2488.307475	0	0		2488.307475			
Riverside (SC)	2025	MCY	Aggregate	Aggregate	Gasoline	24005.46384	138549.7935	3.307549619	3307.549619	3307.549619	138549.7935	138549.7935	41.89	MCY
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Gasoline	157992.5704	6448292.677	323.4938203	323493.8203	328676.5122	6448292.677	6678432.543	20.32	MDV
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Diesel	2427.253752	99526.12558	4.137752355	4137.752355		99526.12558			
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Electricity	1830.142844	64565.5975	0	0		64565.5975			
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Plug-in Hybric	1324.504282	66048.14278	1.044939643	1044.939643		66048.14278			
Riverside (SC)	2025	MH	Aggregate	Aggregate	Gasoline	4508.467531	38795.29207	7.939175542	7939.175542	9582.26868	38795.29207	55815.16631	5.82	MH
Riverside (SC)	2025	MH	Aggregate	Aggregate	Diesel	2015.081247	17019.87424	1.643093138	1643.093138		17019.87424			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1219.56756	49718.98291	9.418016992	9418.016992	73843.62953	49718.98291	635118.1523	8.60	MHDT
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	13275.74248	571359.1019	63.53271272	63532.71272		571359.1019			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	118.7135177	6143.919124	0	0		6143.919124			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	169.7860028	7896.148358	0.892899818	892.8998181		7896.148358			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Gasoline	362.5102847	12151.28279	2.347950658	2347.950658	4510.758842	12151.28279	29688.04546	6.58	OBUS
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Diesel	224.9321911	15183.67961	1.940769719	1940.769719		15183.67961			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Electricity	2.021694394	134.2617193	0	0		134.2617193			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Natural Gas	36.9521167	2218.821339	0.222038465	222.0384652		2218.821339			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Gasoline	426.2067312	16859.59503	1.92304347	1923.04347	5926.536182	16859.59503	38036.5897	6.42	SBUS
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Diesel	483.8964136	9931.139032	1.352394432	1352.394432		9931.139032			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Electricity	5.22909553	143.1587763	0	0		143.1587763			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Natural Gas	457.8096259	11102.69686	2.65109828	2651.09828		11102.69686			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Gasoline	146.4959788	18545.85863	3.288543187	3288.543187	10964.44655	18545.85863	49731.99827	4.54	UBUS
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002675115	2.675115035		30.10971099			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Electricity	0.20926462	33.75780976	0	0		33.75780976			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Natural Gas	252.5418031	31122.27213	7.673228246	7673.228246		31122.27213			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2026
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	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	5.301713201	269.8155783	0.068469804	68.46980429	326183.3321	269.8155783	2063431.007	6.33	HHDT
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Diesel	15687.78827	1988453.103	317.4311809	317431.1809		1988453.103			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Electricity	181.0556624	20854.79688	0	0		20854.79688			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Natural Gas	822.9858358	53853.29132	8.683681391	8683.681391		53853.29132			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Gasoline	470220.2179	20338993.18	657.9019755	657901.9755	670683.7214	20338993.18	22423581.77	33.43	LDA
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Diesel	1278.903087	45656.81459	1.04446634	1044.46634		45656.81459			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Electricity	27110.24505	1294343.513	0	0		1294343.513			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Plug-in Hybric	15111.22646	744588.2646	11.73727955	11737.27955		744588.2646			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Gasoline	39097.73904	1475770.596	57.77065353	57770.65353	57860.51954	1475770.596	1487146.031	25.70	LDT1
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Diesel	13.62192751	246.3725383	0.009960174	9.960173709		246.3725383			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Electricity	113.2552136	5510.233656	0	0		5510.233656			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Plug-in Hybric	101.686721	5618.828531	0.079905828	79.90582849		5618.828531			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Gasoline	207104.2919	9189016.153	359.2463978	359246.3978	361967.9264	9189016.153	9414279.735	26.01	LDT2
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Diesel	682.5626595	31821.71127	0.923868936	923.8689364		31821.71127			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Electricity	2094.273367	72949.08151	0	0		72949.08151			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Plug-in Hybric	2291.195555	120492.7893	1.797659677	1797.659677		120492.7893			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Gasoline	17398.34216	648258.6134	45.43230342	45432.30342	71378.10447	648258.6134	1205852.586	16.89	LHDT1
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Diesel	14868.32038	538771.2685	25.94580105	25945.80105		538771.2685			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Electricity	286.9935654	18822.70429	0	0		18822.70429			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Gasoline	2430.034218	87077.56554	6.894650038	6894.650038	21104.05262	87077.56554	337819.1023	16.01	LHDT2
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Diesel	6777.719033	246178.6334	14.20940258	14209.40258		246178.6334			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Electricity	73.06243174	4562.903373	0	0		4562.903373			
Riverside (SC)	2026	MCY	Aggregate	Aggregate	Gasoline	23937.33086	137142.5787	3.259850983	3259.850983	3259.850983	137142.5787	137142.5787	42.07	MCY
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Gasoline	157654.7501	6425602.492	314.7102388	314710.2388	319841.9429	6425602.492	6678197.896	20.88	MDV
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Diesel	2395.180805	96875.32958	3.958815392	3958.815392		96875.32958			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Electricity	2298.450518	79855.22944	0	0		79855.22944			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Plug-in Hybric	1539.714974	75864.84529	1.172888712	1172.888712		75864.84529			
Riverside (SC)	2026	MH	Aggregate	Aggregate	Gasoline	4250.734566	36312.00617	7.425870006	7425.870006	9021.53348	36312.00617	52833.22222	5.86	MH
Riverside (SC)	2026	MH	Aggregate	Aggregate	Diesel	1981.725027	16521.21606	1.595663475	1595.663475		16521.21606			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Gasoline	1204.155669	49534.83957	9.263997368	9263.997368	74067.74937	49534.83957	646239.7348	8.72	MHDT
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Diesel	13571.64646	577213.7586	63.87135704	63871.35704		577213.7586			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Electricity	219.063018	11241.81607	0	0		11241.81607			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Natural Gas	180.8134913	8249.320573	0.932394966	932.394966		8249.320573			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Gasoline	350.9276772	11597.74291	2.216471452	2216.471452	4375.818964	11597.74291	29375.18585	6.71	OBUS
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Diesel	230.0918445	15233.6578	1.930307181	1930.307181		15233.6578			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Electricity	3.398598414	222.0634986	0	0		222.0634986			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Natural Gas	39.09901647	2321.721637	0.229040331	229.0403313		2321.721637			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Gasoline	428.6165302	16957.83533	1.930418011	1930.418011	5931.110106	16957.83533	38160.16985	6.43	SBUS
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Diesel	474.8674611	9627.108018	1.308586985	1308.586985		9627.108018			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Electricity	8.960082283	245.5300912	0	0		245.5300912			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Natural Gas	472.4302591	11329.69641	2.69210511	2692.10511		11329.69641			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Gasoline	146.7792196	18580.60009	3.25315693	3253.15693	10939.25606	18580.60009	49832.17645	4.56	UBUS
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002675115	2.675114958		30.10971099			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Electricity	0.298524289	49.15190367	0	0		49.15190367			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Natural Gas	252.9741581	31172.31474	7.683424013	7683.424013		31172.31474			

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

Region	CalYr	VehClass	MdlYr	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	4.417589037	240.8696114	0.059741457	59.74145741	327553.1219	240.8696114	2112996.232	6.45	HHDT
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	16021.09962	2023648.424	318.6419902	318641.9902		2023648.424			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Electricity	291.1277388	33695.26576	0	0		33695.26576			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Natural Gas	859.7365707	55411.6726	8.851390205	8851.390205		55411.6726			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	471235.7168	20354484.89	646.3182298	646318.2298	659332.1669	20354484.89	22605957.54	34.29	LDA
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Diesel	1176.545459	41562.34596	0.941772786	941.772786		41562.34596			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Electricity	30348.88532	1428770.722	0	0		1428770.722			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Plug-in Hybric	16056.71591	781139.586	12.07216427	12072.16427		781139.586			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	38425.04641	1456606.871	56.00411545	56004.11545	56110.21758	1456606.871	1471112.371	26.22	LDT1
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Diesel	8.182997029	149.5948697	0.005861932	5.861931679		149.5948697			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Electricity	147.7776311	7209.101259	0	0		7209.101259			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Plug-in Hybric	130.963565	7146.803489	0.100240199	100.2401989		7146.803489			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	212339.9735	9414153.484	360.272054	360272.054	363211.8816	9414153.484	9671400.198	26.63	LDT2
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Diesel	713.6192887	33073.61643	0.942826085	942.8260853		33073.61643			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Electricity	2564.171691	88062.50525	0	0		88062.50525			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Plug-in Hybric	2628.969244	136110.5925	1.997001514	1997.001514		136110.5925			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Gasoline	17212.0897	642894.8546	44.12357644	44123.57644	69419.14823	642894.8546	1201022.641	17.30	LHDT1
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Diesel	14633.12771	526713.4197	25.29557179	25295.57179		526713.4197			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Electricity	492.5286755	31414.36647	0	0		31414.36647			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Gasoline	2393.256129	85530.68603	6.657949773	6657.949773	20539.98243	85530.68603	334771.945	16.30	LHDT2
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Diesel	6722.419556	241624.1987	13.88203265	13882.03265		241624.1987			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Electricity	125.2869519	7617.060264	0	0		7617.060264			
Riverside (SC)	2027	MCY	Aggregate	Aggregate	Gasoline	23872.84416	135933.3741	3.223711537	3223.711537	3223.711537	135933.3741	135933.3741	42.17	MCY
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Gasoline	157494.1298	6421344.406	307.9749594	307974.9594	313073.5241	6421344.406	6696600.902	21.39	MDV
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Diesel	2354.829343	94400.81381	3.800171132	3800.171132		94400.81381			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Electricity	2779.433972	95116.63714	0	0		95116.63714			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Plug-in Hybric	1757.393907	85739.04462	1.298393545	1298.393545		85739.04462			
Riverside (SC)	2027	MH	Aggregate	Aggregate	Gasoline	4014.402617	34124.53465	6.984241305	6984.241305	8533.923074	34124.53465	50163.52077	5.88	MH
Riverside (SC)	2027	MH	Aggregate	Aggregate	Diesel	1945.315043	16038.98612	1.549681769	1549.681769		16038.98612			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Gasoline	1187.040113	49189.22554	9.102215369	9102.215369	74108.25298	49189.22554	657629.6251	8.87	MHDT
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	13823.92114	580928.627	64.04015234	64040.15234		580928.627			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Electricity	371.8319942	18951.18768	0	0		18951.18768			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Natural Gas	191.1860259	8560.584881	0.965885278	965.8852775		8560.584881			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Gasoline	338.9861834	11067.86494	2.084603884	2084.603884	4234.382771	11067.86494	29125.06177	6.88	OBUS
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Diesel	234.5197906	15307.11304	1.914675461	1914.675461		15307.11304			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Electricity	5.428935287	350.8664874	0	0		350.8664874			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Natural Gas	40.94802157	2399.217305	0.235103425	235.1034253		2399.217305			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Gasoline	430.4295714	17027.29145	1.934694955	1934.694955	5925.808471	17027.29145	38269.32872	6.46	SBUS
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Diesel	464.1146803	9303.444431	1.262004708	1262.004708		9303.444431			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Electricity	14.63497518	401.3400131	0	0		401.3400131			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Natural Gas	486.6196132	11537.25282	2.729108808	2729.108808		11537.25282			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Gasoline	147.0093126	18606.89257	3.253359958	3253.359958	10959.60845	18606.89257	49932.35462	4.56	UBUS
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002674823	2.674822746		30.10971099			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Electricity	0.589513765	89.99316283	0	0		89.99316283			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Natural Gas	253.257931	31205.35917	7.703573673	7703.573673		31205.35917			

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

Region	endar Vhicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2028 HHDT	Aggregate	Aggregate	Gasoline	3.988581574	220.2375349	0.053426587	53.42658706	327968.5957	220.2375349	2164028.305	6.60	HHDT
Riverside (SC)	2028 HHDT	Aggregate	Aggregate	Diesel	16286.45202	2055799.739	318.9296757	318929.6757		2055799.739			
Riverside (SC)	2028 HHDT	Aggregate	Aggregate	Electricity	443.1127679	51388.26161	0	0		51388.26161			
Riverside (SC)	2028 HHDT	Aggregate	Aggregate	Natural Gas	889.8391393	56620.06678	8.985493411	8985.493411		56620.06678			
Riverside (SC)	2028 LDA	Aggregate	Aggregate	Gasoline	472360.9133	20372156.29	634.9783189	634978.3189	648196.1926	20372156.29	22779784.76	35.14	LDA
Riverside (SC)	2028 LDA	Aggregate	Aggregate	Diesel	1078.826078	37726.31375	0.844929589	844.9295888		37726.31375			
Riverside (SC)	2028 LDA	Aggregate	Aggregate	Electricity	33534.15965	1556851.62	0	0		1556851.62			
Riverside (SC)	2028 LDA	Aggregate	Aggregate	Plug-in Hybric	16928.42831	813050.5364	12.37294411	12372.94411		813050.5364			
Riverside (SC)	2028 LDT1	Aggregate	Aggregate	Gasoline	37855.87026	1440444.902	54.36871858	54368.71858	54496.07482	1440444.902	1458584.787	26.76	LDT1
Riverside (SC)	2028 LDT1	Aggregate	Aggregate	Diesel	6.076587483	111.1215276	0.004270552	4.270551517		111.1215276			
Riverside (SC)	2028 LDT1	Aggregate	Aggregate	Electricity	188.4728547	9182.136055	0	0		9182.136055			
Riverside (SC)	2028 LDT1	Aggregate	Aggregate	Plug-in Hybric	164.1063254	8846.627488	0.123085684	123.0856837		8846.627488			
Riverside (SC)	2028 LDT2	Aggregate	Aggregate	Gasoline	217588.1473	9627227.084	361.0416912	361041.6912	364204.6139	9627227.084	9917690.621	27.23	LDT2
Riverside (SC)	2028 LDT2	Aggregate	Aggregate	Diesel	743.8336965	34234.83166	0.959155323	959.1553231		34234.83166			
Riverside (SC)	2028 LDT2	Aggregate	Aggregate	Electricity	3077.663905	104270.8577	0	0		104270.8577			
Riverside (SC)	2028 LDT2	Aggregate	Aggregate	Plug-in Hybric	2979.785378	151957.8474	2.203767446	2203.767446		151957.8474			
Riverside (SC)	2028 LHDT1	Aggregate	Aggregate	Gasoline	17013.08285	635719.8804	42.78386012	42783.86012	67372.46896	635719.8804	1197558.473	17.78	LHDT1
Riverside (SC)	2028 LHDT1	Aggregate	Aggregate	Diesel	14375.59914	513629.3418	24.58860884	24588.60884		513629.3418			
Riverside (SC)	2028 LHDT1	Aggregate	Aggregate	Electricity	775.5486666	48209.25082	0	0		48209.25082			
Riverside (SC)	2028 LHDT2	Aggregate	Aggregate	Gasoline	2353.812331	83781.03596	6.417908056	6417.908056	19945.38855	83781.03596	332098.5234	16.65	LHDT2
Riverside (SC)	2028 LHDT2	Aggregate	Aggregate	Diesel	6657.214497	236631.625	13.52748049	13527.48049		236631.625			
Riverside (SC)	2028 LHDT2	Aggregate	Aggregate	Electricity	197.0476771	11685.86241	0	0		11685.86241			
Riverside (SC)	2028 MCY	Aggregate	Aggregate	Gasoline	23825.11116	134879.6959	3.188684508	3188.684508	3188.684508	134879.6959	134879.6959	42.30	MCY
Riverside (SC)	2028 MDV	Aggregate	Aggregate	Gasoline	157471.3828	6419753.084	301.5064704	301506.4704	306577.6338	6419753.084	6718020.856	21.91	MDV
Riverside (SC)	2028 MDV	Aggregate	Aggregate	Diesel	2313.319617	92055.03155	3.64472254	3644.72254		92055.03155			
Riverside (SC)	2028 MDV	Aggregate	Aggregate	Electricity	3280.614214	110611.1646	0	0		110611.1646			
Riverside (SC)	2028 MDV	Aggregate	Aggregate	Plug-in Hybric	1979.988786	95601.57573	1.426440918	1426.440918		95601.57573			
Riverside (SC)	2028 MH	Aggregate	Aggregate	Gasoline	3792.760048	32136.12659	6.576552774	6576.552774	8080.877903	32136.12659	47700.74841	5.90	MH
Riverside (SC)	2028 MH	Aggregate	Aggregate	Diesel	1905.838717	15564.62182	1.50432513	1504.32513		15564.62182			
Riverside (SC)	2028 MHDT	Aggregate	Aggregate	Gasoline	1167.514336	48564.31923	8.892465984	8892.465984	73657.11404	48564.31923	669292.9757	9.09	MHDT
Riverside (SC)	2028 MHDT	Aggregate	Aggregate	Diesel	14002.28475	581224.0545	63.77307861	63773.07861		581224.0545			
Riverside (SC)	2028 MHDT	Aggregate	Aggregate	Electricity	604.2282857	30714.98313	0	0		30714.98313			
Riverside (SC)	2028 MHDT	Aggregate	Aggregate	Natural Gas	199.9675247	8789.618879	0.991569449	991.5694486		8789.618879			
Riverside (SC)	2028 OBUS	Aggregate	Aggregate	Gasoline	327.7078639	10548.10232	1.966652018	1966.652018	4110.66287	10548.10232	28947.37014	7.04	OBUS
Riverside (SC)	2028 OBUS	Aggregate	Aggregate	Diesel	238.556013	15389.24479	1.90528198	1905.28198		15389.24479			
Riverside (SC)	2028 OBUS	Aggregate	Aggregate	Electricity	8.51445928	545.8268781	0	0		545.8268781			
Riverside (SC)	2028 OBUS	Aggregate	Aggregate	Natural Gas	42.59688326	2464.196156	0.238728872	238.7288719		2464.196156			
Riverside (SC)	2028 SBUS	Aggregate	Aggregate	Gasoline	431.0753654	17042.56634	1.933025708	1933.025708	5903.130779	17042.56634	38344.63518	6.50	SBUS
Riverside (SC)	2028 SBUS	Aggregate	Aggregate	Diesel	451.0585439	8951.328084	1.211406554	1211.406554		8951.328084			
Riverside (SC)	2028 SBUS	Aggregate	Aggregate	Electricity	23.22081025	641.5412948	0	0		641.5412948			
Riverside (SC)	2028 SBUS	Aggregate	Aggregate	Natural Gas	499.8225406	11709.19947	2.758698517	2758.698517		11709.19947			
Riverside (SC)	2028 UBUS	Aggregate	Aggregate	Gasoline	132.0967345	16779.39189	2.792318822	2792.318822	8165.960945	16779.39189	50032.53279	6.13	UBUS
Riverside (SC)	2028 UBUS	Aggregate	Aggregate	Electricity	56.86515729	8885.94529	0	0		8885.94529			
Riverside (SC)	2028 UBUS	Aggregate	Aggregate	Natural Gas	213.0114547	24367.19561	5.373642123	5373.642123		24367.19561			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2029
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	endar Vhicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2029 HHDT	Aggregate	Aggregate	Gasoline	3.521277863	202.1541818	0.047864085	47.86408531	327855.0315	202.1541818	2216346.975	6.76	HHDT
Riverside (SC)	2029 HHDT	Aggregate	Aggregate	Diesel	16479.13359	2084622.808	318.7190658	318719.0658		2084622.808			
Riverside (SC)	2029 HHDT	Aggregate	Aggregate	Electricity	637.9174448	73895.81481	0	0		73895.81481			
Riverside (SC)	2029 HHDT	Aggregate	Aggregate	Natural Gas	915.0240056	57626.19745	9.088101593	9088.101593		57626.19745			
Riverside (SC)	2029 LDA	Aggregate	Aggregate	Gasoline	473378.0047	20392511.5	624.7125333	624712.5333	638084.2032	20392511.5	22946897.19	35.96	LDA
Riverside (SC)	2029 LDA	Aggregate	Aggregate	Diesel	984.2848703	34105.5256	0.754932677	754.9326775		34105.5256			
Riverside (SC)	2029 LDA	Aggregate	Aggregate	Electricity	36672.49583	1679783.773	0	0		1679783.773			
Riverside (SC)	2029 LDA	Aggregate	Aggregate	Plug-in Hybric	17717.23467	840496.3916	12.61673718	12616.73718		840496.3916			
Riverside (SC)	2029 LDT1	Aggregate	Aggregate	Gasoline	37329.77745	1426016.935	52.87714767	52877.14767	53027.95314	1426016.935	1448247.044	27.31	LDT1
Riverside (SC)	2029 LDT1	Aggregate	Aggregate	Diesel	3.427515898	64.77720353	0.00247199	2.471989788		64.77720353			
Riverside (SC)	2029 LDT1	Aggregate	Aggregate	Electricity	235.7701723	11443.05065	0	0		11443.05065			
Riverside (SC)	2029 LDT1	Aggregate	Aggregate	Plug-in Hybric	201.238108	10722.28093	0.148333477	148.3334774		10722.28093			
Riverside (SC)	2029 LDT2	Aggregate	Aggregate	Gasoline	222709.7741	9827243.731	361.9096119	361909.6119	365296.4868	9827243.731	10152026.43	27.79	LDT2
Riverside (SC)	2029 LDT2	Aggregate	Aggregate	Diesel	772.0405947	35298.39045	0.973666708	973.6667079		35298.39045			
Riverside (SC)	2029 LDT2	Aggregate	Aggregate	Electricity	3632.690453	121501.2546	0	0		121501.2546			
Riverside (SC)	2029 LDT2	Aggregate	Aggregate	Plug-in Hybric	3341.592403	167983.0531	2.413208238	2413.208238		167983.0531			
Riverside (SC)	2029 LHDT1	Aggregate	Aggregate	Gasoline	16795.68965	626817.5943	41.44446333	41444.46333	65307.90475	626817.5943	1195682.643	18.31	LHDT1
Riverside (SC)	2029 LHDT1	Aggregate	Aggregate	Diesel	14100.4336	499931.2802	23.86344142	23863.44142		499931.2802			
Riverside (SC)	2029 LHDT1	Aggregate	Aggregate	Electricity	1136.869424	68933.76814	0	0		68933.76814			
Riverside (SC)	2029 LHDT2	Aggregate	Aggregate	Gasoline	2311.360939	81890.43268	6.180349829	6180.349829	19337.70933	81890.43268	329846.7853	17.06	LHDT2
Riverside (SC)	2029 LHDT2	Aggregate	Aggregate	Diesel	6579.945196	231251.2981	13.1573595	13157.3595		231251.2981			
Riverside (SC)	2029 LHDT2	Aggregate	Aggregate	Electricity	288.5072961	16705.05449	0	0		16705.05449			
Riverside (SC)	2029 MCY	Aggregate	Aggregate	Gasoline	23785.59397	133992.5339	3.158220541	3158.220541	3158.220541	133992.5339	133992.5339	42.43	MCY
Riverside (SC)	2029 MDV	Aggregate	Aggregate	Gasoline	157566.4176	6422134.222	295.7356399	295735.6399	300787.0982	6422134.222	6743594.1	22.42	MDV
Riverside (SC)	2029 MDV	Aggregate	Aggregate	Diesel	2270.052008	89793.21905	3.497190206	3497.190206		89793.21905			
Riverside (SC)	2029 MDV	Aggregate	Aggregate	Electricity	3798.420259	126244.9533	0	0		126244.9533			
Riverside (SC)	2029 MDV	Aggregate	Aggregate	Plug-in Hybric	2206.461916	105421.7052	1.554268068	1554.268068		105421.7052			
Riverside (SC)	2029 MH	Aggregate	Aggregate	Gasoline	3580.024094	30304.87469	6.200886309	6200.886309	7662.851529	30304.87469	45426.06573	5.93	MH
Riverside (SC)	2029 MH	Aggregate	Aggregate	Diesel	1866.96934	15121.19104	1.46196522	1461.96522		15121.19104			
Riverside (SC)	2029 MHDT	Aggregate	Aggregate	Gasoline	1146.504322	47682.88265	8.647839827	8647.839827	72734.49734	47682.88265	681256.8228	9.37	MHDT
Riverside (SC)	2029 MHDT	Aggregate	Aggregate	Diesel	14090.24645	577637.3476	63.07599507	63075.99507		577637.3476			
Riverside (SC)	2029 MHDT	Aggregate	Aggregate	Electricity	926.590875	46978.62065	0	0		46978.62065			
Riverside (SC)	2029 MHDT	Aggregate	Aggregate	Natural Gas	207.3526487	8957.971936	1.010662446	1010.662446		8957.971936			
Riverside (SC)	2029 OBUS	Aggregate	Aggregate	Gasoline	317.2534562	10029.82553	1.852692949	1852.692949	3991.548998	10029.82553	28835.05682	7.22	OBUS
Riverside (SC)	2029 OBUS	Aggregate	Aggregate	Diesel	241.8508995	15476.67687	1.896857086	1896.857086		15476.67687			
Riverside (SC)	2029 OBUS	Aggregate	Aggregate	Electricity	12.69375286	806.996631	0	0		806.996631			
Riverside (SC)	2029 OBUS	Aggregate	Aggregate	Natural Gas	44.00215554	2521.557795	0.241998962	241.998962		2521.557795			
Riverside (SC)	2029 SBUS	Aggregate	Aggregate	Gasoline	430.58641	17011.24293	1.926242584	1926.242584	5861.029094	17011.24293	38393.56531	6.55	SBUS
Riverside (SC)	2029 SBUS	Aggregate	Aggregate	Diesel	434.8515342	8570.48699	1.156596835	1156.596835		8570.48699			
Riverside (SC)	2029 SBUS	Aggregate	Aggregate	Electricity	35.16581802	977.8677573	0	0		977.8677573			
Riverside (SC)	2029 SBUS	Aggregate	Aggregate	Natural Gas	511.5178287	11833.96763	2.778189675	2778.189675		11833.96763			
Riverside (SC)	2029 UBUS	Aggregate	Aggregate	Gasoline	132.3115365	16803.80623	2.778191525	2778.191525	7136.520824	16803.80623	50132.71096	7.02	UBUS
Riverside (SC)	2029 UBUS	Aggregate	Aggregate	Electricity	96.0161752	13354.27709	0	0		13354.27709			
Riverside (SC)	2029 UBUS	Aggregate	Aggregate	Natural Gas	174.4504903	19974.62765	4.358329299	4358.329299		19974.62765			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2030
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	endar Vhicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2030 HHDT	Aggregate	Aggregate	Gasoline	2.967586625	184.9821766	0.04261741	42.61740995	327356.1054	184.9821766	2269980.868	6.93	HHDT
Riverside (SC)	2030 HHDT	Aggregate	Aggregate	Diesel	16609.15097	2110490.455	318.1454004	318145.4004		2110490.455			
Riverside (SC)	2030 HHDT	Aggregate	Aggregate	Electricity	870.8442943	100841.5654	0	0		100841.5654			
Riverside (SC)	2030 HHDT	Aggregate	Aggregate	Natural Gas	935.475286	58463.86618	9.168087609	9168.087609		58463.86618			
Riverside (SC)	2030 LDA	Aggregate	Aggregate	Gasoline	474280.5182	20414204.08	615.4867067	615486.7067	628971.2014	20414204.08	23109339.07	36.74	LDA
Riverside (SC)	2030 LDA	Aggregate	Aggregate	Diesel	890.6615466	30736.13468	0.671375993	671.3759928		30736.13468			
Riverside (SC)	2030 LDA	Aggregate	Aggregate	Electricity	39805.71254	1800386.56	0	0		1800386.56			
Riverside (SC)	2030 LDA	Aggregate	Aggregate	Plug-in Hybric	18428.80939	864012.3006	12.81311873	12813.11873		864012.3006			
Riverside (SC)	2030 LDT1	Aggregate	Aggregate	Gasoline	36835.1094	1413210.421	51.52041283	51520.41283	51697.11975	1413210.421	1440036.009	27.86	LDT1
Riverside (SC)	2030 LDT1	Aggregate	Aggregate	Diesel	0.611897759	16.8918368	0.000614079	0.614079347		16.8918368			
Riverside (SC)	2030 LDT1	Aggregate	Aggregate	Electricity	290.4750144	14027.544	0	0		14027.544			
Riverside (SC)	2030 LDT1	Aggregate	Aggregate	Plug-in Hybric	242.566466	12781.15236	0.176092845	176.0928452		12781.15236			
Riverside (SC)	2030 LDT2	Aggregate	Aggregate	Gasoline	227626.5815	10012658.43	362.780674	362780.674	366392.7777	10012658.43	10372991.69	28.31	LDT2
Riverside (SC)	2030 LDT2	Aggregate	Aggregate	Diesel	798.9568229	36277.39289	0.986889074	986.8890743		36277.39289			
Riverside (SC)	2030 LDT2	Aggregate	Aggregate	Electricity	4232.749267	139883.643	0	0		139883.643			
Riverside (SC)	2030 LDT2	Aggregate	Aggregate	Plug-in Hybric	3713.158646	184172.2252	2.625214705	2625.214705		184172.2252			
Riverside (SC)	2030 LHDT1	Aggregate	Aggregate	Gasoline	16556.1228	616387.0613	40.10923239	40109.23239	63229.22004	616387.0613	1195437.037	18.91	LHDT1
Riverside (SC)	2030 LHDT1	Aggregate	Aggregate	Diesel	13807.4056	485670.076	23.11998765	23119.98765		485670.076			
Riverside (SC)	2030 LHDT1	Aggregate	Aggregate	Electricity	1577.187134	93379.90013	0	0		93379.90013			
Riverside (SC)	2030 LHDT2	Aggregate	Aggregate	Gasoline	2266.819498	79871.54962	5.946314153	5946.314153	18716.87413	79871.54962	327963.7374	17.52	LHDT2
Riverside (SC)	2030 LHDT2	Aggregate	Aggregate	Diesel	6488.812836	225468.8622	12.77055997	12770.55997		225468.8622			
Riverside (SC)	2030 LHDT2	Aggregate	Aggregate	Electricity	399.7581132	22623.32567	0	0		22623.32567			
Riverside (SC)	2030 MCY	Aggregate	Aggregate	Gasoline	23721.90098	133239.4177	3.130648485	3130.648485	3130.648485	133239.4177	133239.4177	42.56	MCY
Riverside (SC)	2030 MDV	Aggregate	Aggregate	Gasoline	157782.5167	6428601.892	290.6635588	290663.5588	295701.0558	6428601.892	6773551.149	22.91	MDV
Riverside (SC)	2030 MDV	Aggregate	Aggregate	Diesel	2224.019723	87601.07267	3.355974306	3355.974306		87601.07267			
Riverside (SC)	2030 MDV	Aggregate	Aggregate	Electricity	4336.062239	142162.4125	0	0		142162.4125			
Riverside (SC)	2030 MDV	Aggregate	Aggregate	Plug-in Hybric	2435.718824	115185.7716	1.681522687	1681.522687		115185.7716			
Riverside (SC)	2030 MH	Aggregate	Aggregate	Gasoline	3385.980841	28690.98	5.869920064	5869.920064	7292.591689	28690.98	43400.79558	5.95	MH
Riverside (SC)	2030 MH	Aggregate	Aggregate	Diesel	1828.618507	14709.81558	1.422671624	1422.671624		14709.81558			
Riverside (SC)	2030 MHDT	Aggregate	Aggregate	Gasoline	1121.808481	46503.91073	8.36068651	8360.68651	71337.70588	46503.91073	693470.0948	9.72	MHDT
Riverside (SC)	2030 MHDT	Aggregate	Aggregate	Diesel	14086.50638	570229.549	61.9542813	61954.2813		570229.549			
Riverside (SC)	2030 MHDT	Aggregate	Aggregate	Electricity	1337.301971	67676.74715	0	0		67676.74715			
Riverside (SC)	2030 MHDT	Aggregate	Aggregate	Natural Gas	213.50876	9059.887916	1.022738066	1022.738066		9059.887916			
Riverside (SC)	2030 OBUS	Aggregate	Aggregate	Gasoline	306.52092	9495.025729	1.7388773	1738.8773	3875.439871	9495.025729	28765.68115	7.42	OBUS
Riverside (SC)	2030 OBUS	Aggregate	Aggregate	Diesel	243.9224056	15566.83183	1.891571171	1891.571171		15566.83183			
Riverside (SC)	2030 OBUS	Aggregate	Aggregate	Electricity	17.93419592	1129.736842	0	0		1129.736842			
Riverside (SC)	2030 OBUS	Aggregate	Aggregate	Natural Gas	45.17375328	2574.086746	0.2449914	244.9913999		2574.086746			
Riverside (SC)	2030 SBUS	Aggregate	Aggregate	Gasoline	428.8569519	16930.28687	1.913943465	1913.943465	5797.621978	16930.28687	38413.1774	6.63	SBUS
Riverside (SC)	2030 SBUS	Aggregate	Aggregate	Diesel	415.619616	8151.538011	1.096266506	1096.266506		8151.538011			
Riverside (SC)	2030 SBUS	Aggregate	Aggregate	Electricity	50.63292432	1419.299274	0	0		1419.299274			
Riverside (SC)	2030 SBUS	Aggregate	Aggregate	Natural Gas	521.7784396	11912.05324	2.787412007	2787.412007		11912.05324			
Riverside (SC)	2030 UBUS	Aggregate	Aggregate	Gasoline	109.2615591	11695.08832	1.495692129	1495.692129	5754.768279	11695.08832	50232.88913	8.73	UBUS
Riverside (SC)	2030 UBUS	Aggregate	Aggregate	Electricity	127.945819	19150.64654	0	0		19150.64654			
Riverside (SC)	2030 UBUS	Aggregate	Aggregate	Natural Gas	166.3756792	19387.15427	4.25907615	4259.07615		19387.15427			

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