Harvest Landing Specific Plan

GREENHOUSE GAS 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 ..... **III**
EXECUTIVE SUMMARY **8**
ES.1 Summary of Findings 8
ES.2 Project Requirements 8
ES.3 Project Mitigation Measures 9
1 INTRODUCTION **15**
1.1 Site Location 15
1.2 Project Description 15
2 CLIMATE CHANGE SETTING **21**
2.1 Introduction to Global Climate Change (GCC) 21
2.2 Global Climate Change Defined 21
2.3 GHGs 21
2.4 Global Warming Potential 27
2.5 GHG Emissions Inventories 28
2.6 Effects of Climate Change in California 29
2.7 Regulatory Setting 31
3 PROJECT GHG IMPACT **53**
3.1 Introduction 53
3.2 Standards of Significance 53
3.3 Models Employed To Analyze GHGs 54
3.4 Life-Cycle Analysis Not Required 55
3.5 Construction Emissions 55
3.6 Operational Emissions 59
3.7 GHG Emissions Findings and Recommendations 65
4 REFERENCES **90**
5 CERTIFICATIONS **95**

APPENDICES

APPENDIX 3.1: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS
APPENDIX 3.2: CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO A (WITH OVERLAY)
APPENDIX 3.3: CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO A (WITHOUT OVERLAY)
APPENDIX 3.4: CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO B (WITH OVERLAY)
APPENDIX 3.5: CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO B (WITHOUT OVERLAY)

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 18
EXHIBIT 1-B: SITE PLAN 19
EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990) 27

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 8
TABLE 2-1: GHGS 22
TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS 28
TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION 28
TABLE 3-1: CONSTRUCTION DURATION 56
TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS 57
TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS 59
TABLE 3-4: PASSENGER CAR FLEET MIX – SCENARIO A AND SCENARIO B 62
TABLE 3-5: TRUCK FLEET MIX – SCENARIO A AND SCENARIO B 62
TABLE 3-6: STATIONARY SOURCE EQUIPMENT – WITH AND WITHOUT OVERLAY 63
TABLE 3-7: GHG EMISSIONS – SCENARIO A WITH OVERLAY SCENARIO (WITHOUT MITIGATION) 66
TABLE 3-8: GHG EMISSIONS – SCENARIO A WITHOUT OVERLAY SCENARIO (WITHOUT MITIGATION) .. 67
TABLE 3-9: GHG EMISSIONS – SCENARIO B WITH OVERLAY SCENARIO (WITHOUT MITIGATION) 69
TABLE 3-10: GHG EMISSIONS – SCENARIO B WITHOUT OVERLAY SCENARIO (WITHOUT MITIGATION) 71
TABLE 3-11: GHG EMISSIONS – SCENARIO A WITH OVERLAY SCENARIO (WITH MITIGATION) 77
TABLE 3-12: GHG EMISSIONS – SCENARIO A WITHOUT OVERLAY SCENARIO (WITH MITIGATION) 79
TABLE 3-13: GHG EMISSIONS – SCENARIO B WITH OVERLAY SCENARIO (WITH MITIGATION) 80
TABLE 3-14: GHG EMISSIONS – SCENARIO B WITHOUT OVERLAY SCENARIO (WITH MITIGATION) 82

LIST OF ABBREVIATED TERMS

%	Percent
°C	Degrees Celsius
°F	Degrees Fahrenheit
(1)	Reference
2017 Scoping Plan	*Final 2017 Scoping Plan Update*
AB	Assembly Bill
AB 32	Global Warming Solutions Act of 2006
AB 1493	Pavley Fuel Efficiency Standards
AB 1881	California Water Conservation Landscaping Act of 2006
Annex I	Industrialized Nations
APA	Administrative Procedure Act
AQIA	*Harvest Landing Specific Plan Air Quality Impact Analysis*
BAU	Business as Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CAA	Federal Clean Air Act
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CDFA	California Department of Food and Agriculture
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFC-113	Trichlorotrifluoroethane
CH_4	Methane
City	City of Perris
CNRA	California Natural Resources Agency
CNRA 2009	*2009 California Climate Adaptation Strategy*

CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
Convention	United Nation's Framework Convention on Climate Change
COP	Conference of the Parties
CPUC	California Public Utilities Commission
CTC	California Transportation Commission
DWR	Department of Water Resources
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
EV	Electric Vehicle
GCC	Global Climate Change
Gg	Gigagram
GHGA	Greenhouse Gas Analysis
gpd	Gallons Per Day
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HDT	Heavy-Duty Trucks
HFC-23	Fluoroform
HFC-134a	1,1,1,2-tetrafluoroethane
HFC-152a	1,1-difluoroethane
HHDT	Heavy-Heavy-Duty Trucks
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resource Planning
ISO	Independent System Operator
kWh	Kilowatt Hours
lbs	Pounds
LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCD	Liquid Crystal Display
LCFS	Low Carbon Fuel Standard or Executive Order S-01-07
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV III	Low-Emission Vehicle
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LULUCF	Land-Use, Land-Use Change and Forestry
MCY	Motorcycles
MD	Medium Duty

MDT	Medium-Duty Trucks
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
mpg	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MMTCO_2e/yr.$	Million Metric Ton of Carbon Dioxide Equivalent Per Year
MT/yr.	Metric Tons Per Year
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
$MTCO_2e/yr.$	Metric Ton of Carbon Dioxide Equivalent Per Year
MW	Megawatts
MWh	Megawatts Per Hour
MWELO	California Department of Water Resources' Model Water Efficient
N_2O	Nitrous Oxide
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NHTSA	National Highway Traffic Safety Administration
NIOSH	National Institute for Occupational Safety and Health
NO_X	Nitrogen Oxides
Non-Annex I	Developing Nations
OAL	Office of Administrative Law
OPR	Office of Planning and Research
PFC	Perfluorocarbons
ppb	Parts Per Billion
ppm	Parts Per Million
ppt	Parts Per Trillion
Project	Harvest Landing Specific Plan
RTP	Regional Transportation Plan
SAFE	Safer Affordable Fuel-Efficient Vehicles Rule
SB	Senate Bill
SB 32	California Global Warming Solutions Act of 2006
SB 375	Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies
SB 1078	Renewable Portfolio Standards
SB 1368	Statewide Retail Provider Emissions Performance Standards
SCAB	South Coast Air Basin

SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
Scoping Plan	California Air Resources Board Climate Change Scoping Plan
SCS	Sustainable Communities Strategy
sf	Square Feet
SF_6	Sulfur Hexaflouride
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
TDM	Transportation Demand Measures
Title 20	Appliance Energy Efficiency Standards
Title 24	California Building Code
U.N.	United Nations
U.S.	United States
UNFCCC	United Nations' Framework Convention on Climate Change
VMT	Vehicle Miles Traveled
WCI	Western Climate Initiative
WRI	World Resources Institute
ZE/NZE	Zero and Near-Zero Emissions
ZEV	Zero-Emissions Vehicles

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Harvest Landing Specific Plan Greenhouse Gas Analysis* (GHGA) is summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the *CEQA Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of GHG impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
GHG Impact #1: The Project would not generate direct or indirect GHG emissions that would result in a significant impact on the environment.	3.7	*Potentially Significant*	*Significant and Unavoidable*
GHG Impact #2: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.	3.7	*Potentially Significant*	*Significant and Unavoidable*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) (2).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill [SB] 375) (3).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (4).
- California Building Code (Title 24 California Code of Regulations [CCR]). Establishes energy efficiency requirements for new construction (5).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (6).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 10 percent (%) less by 2020 (7).
- California Water Conservation in Landscaping Act of 2006 (AB 1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent to ensure efficient landscapes in new development and reduced water waste in existing landscapes (8).

- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (9).
- Renewable Portfolio Standards (SB 1078 – also referred to as RPS). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20% by 2010 and 33% by 2020 (10).
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (11).
- SCAQMD Rule 2305. The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO_X) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities.

It should be noted that these regulations are accounted for in the California Emissions Estimator Model (CalEEMod) modeling performed for the proposed Project.

ES.3 PROJECT MITIGATION MEASURES

The following Project-specific mitigation measures (MM AQ-8 through MM AQ-19) were identified in the *Harvest Landing Specific Plan Air Quality Impact Analysis Report* (AQIA) (Urban Crossroads, Inc.) (12) Additionally, there are Project-specific GHG mitigation measures as summarized below. These measures are designed to reduce Project operational-source emissions. With implementation of mitigation measure MM AQ-10, the analysis assumed that all operational off-road equipment would be electric-powered and under mitigation measure MM AQ-16 landscaping equipment was assumed to be electric powered. Additionally, with implementation of mitigation measure MM GHG-1, a recycling composite program would be provided that would divert 50% of waste for the commercial uses and 60% for the industrial uses which was assumed in the analysis. Under mitigation measure MM GHG-3, the analysis assumed a 20 percent reduction in indoor and outdoor water usage and under 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 emissions, no reductions in emissions 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 emissions.

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 GHGA prepared by Urban Crossroads, Inc., for the proposed Harvest Landing Specific Plan (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

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-acre 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]

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

[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 Overlay Scenario and Without Overlay Scenario, as it is unknown at this time whether the Overlay area would be built out.

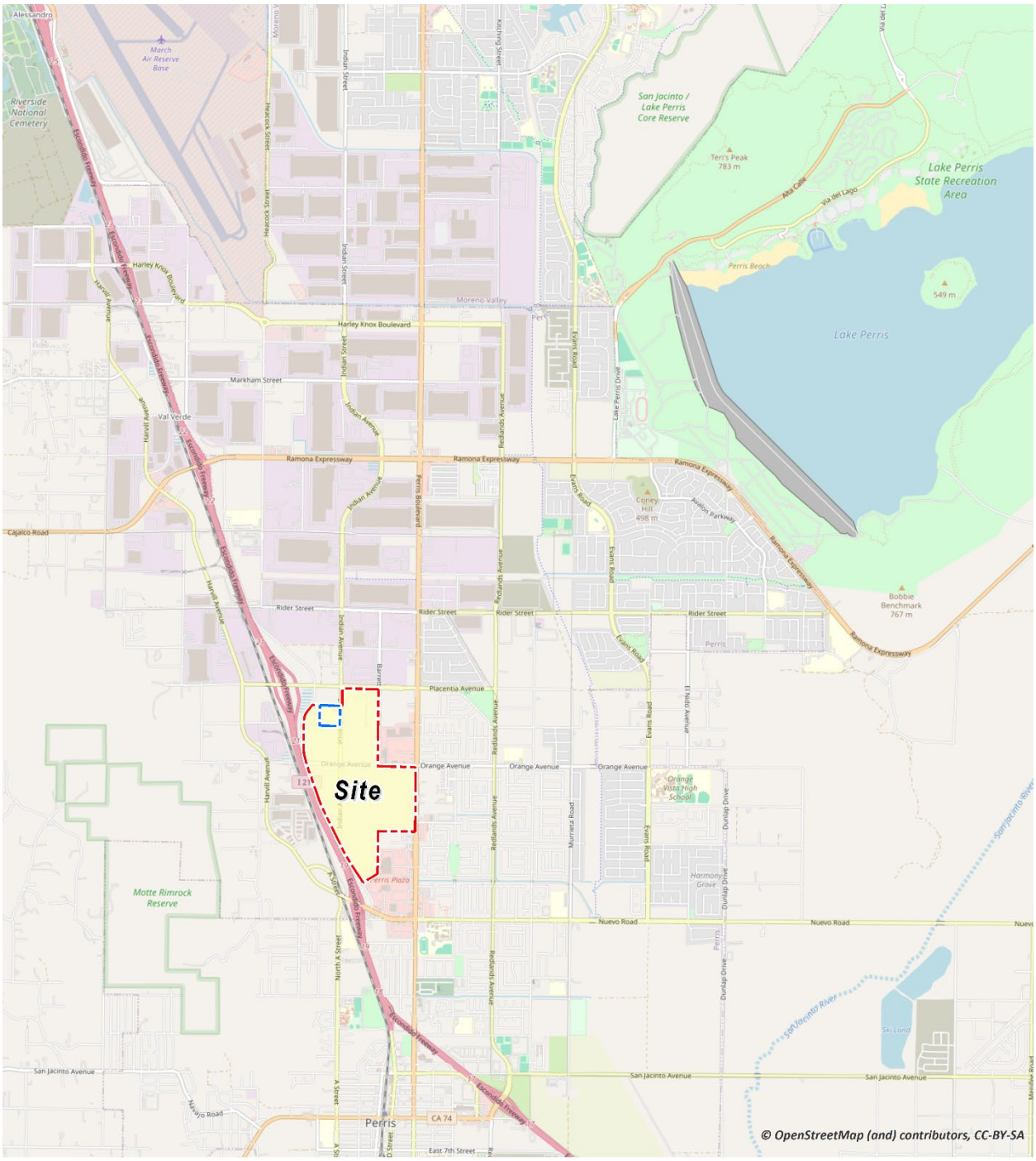
[2] The Phase 2 buildout square footage of 4,007,955 SF was based on the gross acreage of parcels within the Phase 2 area prior to roadway dedications. After roadway dedications, the maximum allowable development within Phase 2 would actually be 4,001,748 SF. However, for purposes of providing a conservative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

Phase	Building No.	Building/Commercial Use Type	Proposed Square Footage
	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
	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 2 Total Industrial Square Footage	**4,007,955**
		Project Buildout (Phase 1 + Phase 2) Total Industrial Square Footage	***5,735,535***
		Project Buildout (Phase 1 + Phase 2) 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 (13), 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:

N

Site Boundary Overlay

EXHIBIT 1-B: SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE (GCC)

GCC is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project, like the Project evaluated in this GHGA, cannot generate enough GHG emissions to affect a discernible change in global climate. However, the Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3 will evaluate the potential for the Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation, and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radiative heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GHGS

2.3.1 GHGS AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties as discussed in Table 2-1. For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were

not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GHGS

GHGs	Description	Sources	Health Effects
Water	Water is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere, it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. Climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop would continue is unknown as there are also dynamics that hold the positive feedback loop	The main source of water vapor is evaporation from the oceans (approximately 85%). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

GHGs	Description	Sources	Health Effects
	in check. As an example, when water vapor increases in the atmosphere, more of it would eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (14).		
CO_2	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30%. Left unchecked, the concentration of CO_2 in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (15).	CO_2 is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. CO_2 is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (16).	Outdoor levels of CO_2 are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO_2 can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of CO_2 in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000 ppm averaged over a 15-minute period (17).

GHGs	Description	Sources	Health Effects
CH_4	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO_2 and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	CH_4 in the atmosphere is generated by many different sources, such as fossil fuel production, transport and use, from the decay of organic matter in wetlands, and as a byproduct of digestion by ruminant animals such as cows. Determining which specific sources are responsible for variations in annual increases of CH_4 is complex, but scientists estimate that fossil fuel production and use contributes roughly 30% of the total CH_4 emissions. These industrial sources of CH_4 are relatively simple to pinpoint and control using current technology (18).	CH_4 is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to elevated levels of CH_4 can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
N_2O	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its	N_2O can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (19).

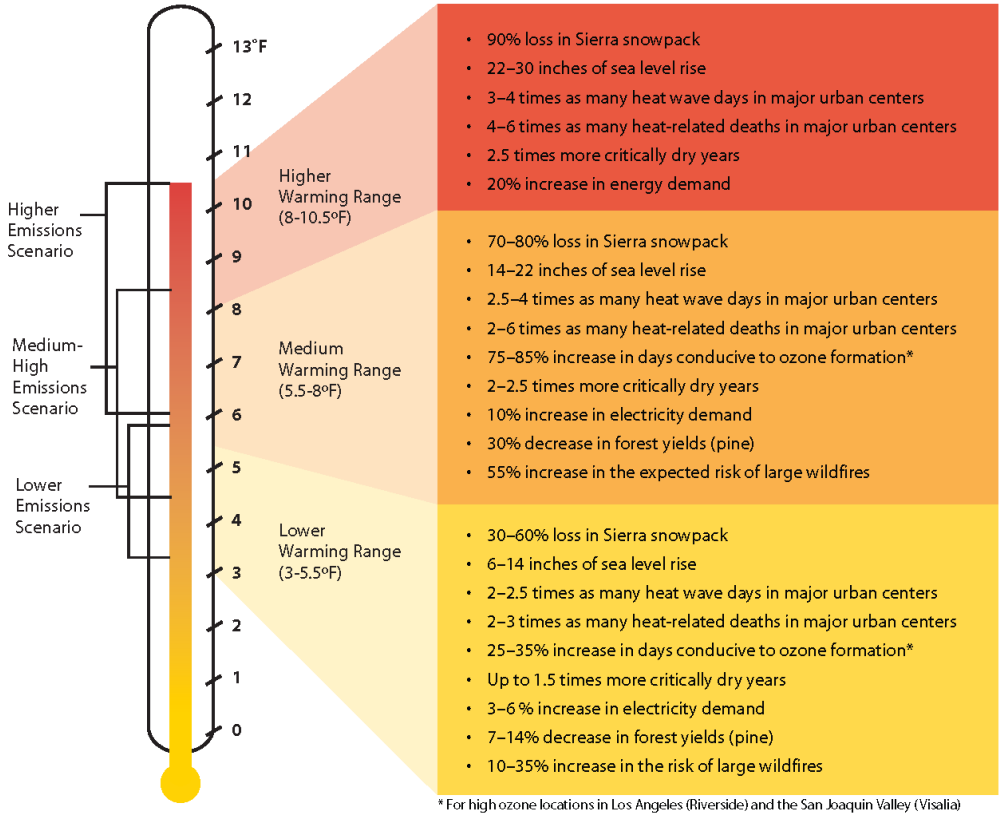
GHGs	Description	Sources	Health Effects
		atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. N_2O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (19).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in CH_4 or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source. They are found in aerosol sprays, blowing agents for foams and packing materials, as solvents, and as refrigerants. (20).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.
HFCs	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), Fluoroform (HFC-23), 1,1,1,2-tetrafluoroethane (HFC-134a), and 1,1-difluoroethane (HFC-152a). Prior to 1990, the only significant emissions were of HFC-23. HCF-134a emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.

GHGs	Description	Sources	Health Effects
PFCs	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have exceptionally long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
SF_6	SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (21). The EPA indicates that concentrations in the 1990s were about 4 ppt.	SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year GWP of 17,200 (22).	NF_3 is used in industrial processes and is produced in the manufacturing of semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers.	Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (23).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects, such as the Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Climate change would likely cause shifts in weather patterns,

potentially resulting in devastating droughts and food shortages in some areas (24). Exhibit 2-A presents the potential impacts of global warming (25).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. The GWP of a GHG indicates the amount of warming a gas causes over a given period of time and represents the potential of a gas to trap heat in the atmosphere. CO_2 is utilized as the reference gas for GWP, and thus has a GWP of 1. CO_2 equivalent (CO_2e) is a term used for describing the different GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The Intergovernmental Panel on Climate Change (IPCC) is the international body for assessing the science related to climate change. IPCC Assessment Reports cover the full scientific, technical and socio-economic assessment of climate change. The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the 2nd Assessment range from 1 for CO_2 to 23,900 for SF_6 and GWP for the 6th Assessment Report range from 1 for CO_2 to 25,200 for SF_6 (26).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	GWP (100-year time horizon)	
		2nd Assessment Report	6th Assessment Report
CO_2	Multiple	1	1
CH_4	11.8	21	28
N_2O	109	310	273
HFC-23	228	11,700	14,600
HFC-134a	14	1,300	1,526
HFC-152a	1.6	140	164
SF_6	3,200	23,900	25,200

Source: IPCC Second Assessment Report, 1995 and IPCC Sixth Assessment Report, 2023

2.5 GHG EMISSIONS INVENTORIES

2.5.1 GLOBAL

Worldwide anthropogenic GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2021. Based on the latest available data, the sum of these emissions totaled approximately 28,272,940 gigagram (Gg) CO_2e[3] (27) (28) as summarized on Table 2-3.

2.5.2 UNITED STATES

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2021.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION

Emitting Countries	GHG Emissions (Gg CO_2e)
China	12,300,200
United States	6,340,228
European Union (27-member countries)	3,468,394
India	2,839,425
Russian Federation	2,156,599
Japan	1,168,094

[3] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2021 data, the United Nations' Framework Convention on Climate Change (UNFCCC) data for the most recent year were used U.N. Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014 and 2016, respectively.

Emitting Countries	GHG Emissions (Gg CO_2e)
Total	**28,272,940**

2.5.3 STATE OF CALIFORNIA

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls but is still a substantial contributor to the United States (U.S.) emissions inventory total (19). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2023 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2021 GHG emissions period, California emitted an average 381.3 million metric tons of CO_2e per year ($MMTCO_2e/yr$) or 381,300 Gg CO_2e (6.01% of the total United States GHG emissions) (29). Based on data published by the U.S. Energy Information Administration, California's per capita (9.12 metric tons) GHG emissions are much less than the nationwide per capita (15.8 metric ton) average (30).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

2.6.1 PUBLIC HEALTH

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35% under the lower warming range to 75 to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. Based on *Our Changing Climate Assessing the Risks to California by the California Climate Change Center*, large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced (31).

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a significant increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

2.6.2 WATER RESOURCES

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as

much as 70 to 90%. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

2.6.3 AGRICULTURE

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25% of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits, and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

2.6.4 FORESTS AND LANDSCAPES

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks would

not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90% due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

2.6.5 RISING SEA LEVELS

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

2.7.1 INTERNATIONAL REGULATORY FRAMEWORK

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

IPCC

In 1988, the United Nations (U.N.) and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

UNITED NATION'S FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)

On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the UNFCCC, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

INTERNATIONAL CLIMATE CHANGE TREATIES

The Kyoto Protocol is an international agreement linked to the UNFCCC. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European Union for reducing GHG emissions at an average of 5% against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier

burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the UN Climate Change Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2 degrees Celsius (°C) above pre-industrial levels, subject to a review in 2015. The Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings gradually gained consensus among participants on individual climate change issues.

On September 23, 2014, more than 100 heads of state and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the U.N. At the Summit, attendees announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the UNFCCC reached a landmark agreement on December 12, 2015, in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2°C, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;
- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they would "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;

- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly would not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (32).

Following President Biden's day one executive order, the United States officially rejoined the landmark Paris Agreement on February 19, 2021.

2.7.2 National Regulatory Framework

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment

In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the United States Supreme Court (Supreme Court) found that four GHGs, including CO_2, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Supreme Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs— CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (33).

Clean Vehicles

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On April 1, 2010, the EPA, and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). In August 2012, the EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025. The new standards apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks (HDT) and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20% reduction in CO_2 emissions and fuel consumption by the 2018 model year. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10% reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 model year (12 and 17% respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which declared that the MY 2022-2025 GHG standards are not appropriate and should be revised (34). This Final Determination serves to initiate a notice to further consider appropriate standards for MY 2022-2025 light-duty vehicles. On August 2, 2018, the NHTSA in conjunction with the EPA, released a notice of proposed rulemaking, the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks* (SAFE Vehicles Rule). The SAFE Vehicles Rule was proposed to amend existing Corporate Average Fuel Economy (CAFE) and tailpipe CO_2 standards for passenger cars and light trucks and to establish new standards covering model years 2021 through 2026. As of March 31, 2020, the NHTSA and EPA finalized the SAFE Vehicle Rule which increased stringency of CAFE and CO_2 emissions standards by 1.5% each year through model year 2026 (35). On December 21, 2021, after reviewing all the public comments submitted on NHTSA's April 2021 Notice of Proposed Rulemaking, NHTSA finalizes the CAFE Preemption rulemaking to withdraw its portions of the so-called SAFE I Rule. The final rule concluded that the SAFE I Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests. The final rule ensures that the SAFE I Rule will no longer form an improper barrier to states exploring creative solutions to address their local communities' environmental and public health challenges (36).

On March 31, 2022, NHTSA finalized CAFE standards for MY 2024-2026. The standards for passenger cars and light trucks for MYs 2024-2025 were increased at a rate of 8% per year and

then increased at a rate of 10% per year for MY 2026 vehicles. NHTSA currently projects that the revised standards would require an industry fleet-wide average of roughly 49 mpg in MY 2026 and would reduce average fuel outlays over the lifetimes of affected vehicles that provide consumers hundreds of dollars in net savings. These standards are directly responsive to the agency's statutory mandate to improve energy conservation and reduce the nation's energy dependence on foreign sources (37).

MANDATORY REPORTING OF GHGS

The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons per year (MT/yr.) or more of GHG emissions are required to submit annual reports to the EPA.

CAP-AND-TRADE

Cap-and-trade refers to a flexible policy tool where emissions are capped at certain limits and those limits can be traded with other emitters in such a way that increases overall compliance with GHG regulations. Successful examples in the U.S. include the Acid Rain Program and the N_2O Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps CO_2 emissions from power plants, auctions CO_2 emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008 and has retained all participating states as of 2020.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32 requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

SMARTWAY PROGRAM

The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other

federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (38):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HDTs will have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10% or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel will eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

EXECUTIVE ORDER 13990

On January 20, 2021, Federal agencies were directed to immediately review, and take action to address, Federal regulations promulgated and other actions taken during the last 4 years that conflict with national objectives to improve public health and the environment; ensure access to

clean air and water; limit exposure to dangerous chemicals and pesticides; hold polluters accountable, including those who disproportionately harm communities of color and low-income communities; reduce GHG emissions; bolster resilience to the impacts of climate change; restore and expand our national treasures and monuments; and prioritize both environmental justice and employment.

2.7.3 CALIFORNIA REGULATORY FRAMEWORK

2.7.3.1 LEGISLATIVE ACTIONS TO REDUCE GHGS

The State of California legislature has enacted a series of bills to reduce GHG emissions. This section describes the major provisions of California's policies.

AB 1881

The Water Conservation in Landscaping Act of 2006 requires local agencies to adopt the updated DWR model ordinance or equivalent. AB 1881 also requires the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

SB 1368

California SB 1368 adds Sections 8340 and 8341 to the Public Utilities Code (effective January 1, 2007) with the intent "to prevent long-term investments in power plants with GHG emissions in excess of those produced by a combined-cycle natural gas power plant" with the aim of "reducing emissions of GHGs from the state's electricity consumption, not just the state's electricity production." SB 1368 provides a mechanism for reducing the GHG emissions of electricity providers, both in-state and out-of-state, thereby assisting CARB in meeting its mandate under AB 32, the Global Warming Solutions Act of 2006.

AB 32

The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met[4]). GHGs as defined under AB 32, include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, NF_3, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

> *"Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack,*

[4] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$ (60). This is less than the 2020 emissions target of 431 $MMTCO_2e$.

> *a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems."*

SB 375

On September 30, 2008, SB 375 was signed into law. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California would not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations (MPOs) to include sustainable community strategies in their regional transportation plans for reducing GHG emissions; (2) aligns planning for transportation and housing; and (3) creates specified incentives for the implementation of the strategies.

SB 375 requires MPOs to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP) that guides growth while taking into account the transportation, housing, environmental, and economic needs of the region. SB 375 uses CEQA streamlining as an incentive to encourage residential projects, which helps achieve AB 32 goals to reduce GHG emissions.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the mitigation measures required by an applicable prior environmental document.

AB 1493 - Pavley Fuel Efficiency Standards

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program (LEV III) or the Advanced Clean Cars (ACC) program. The ACC program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for MY 2017 through 2025. The regulation aims to reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules will clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid EV and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California. On March 9, 2022, the EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards for cars and light trucks, which other states can also adopt and enforce.

CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

In October 2015, the California legislature passed SB 350, which affirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for EV charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. 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 would be achieved through the California Public Utilities Commission (CPUC), the California Energy Commission (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 would facilitate the growth of renewable energy markets in the western United States.

SB 32

On September 8, 2016, California adopted SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (11).

2017 CARB SCOPING PLAN

In November 2017, CARB released the *Final 2017 Scoping Plan Update* (*2017 Scoping Plan*), which identifies the State's post-2020 reduction strategy. The *2017 Scoping Plan* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks, and freight movement, utilizing cleaner, renewable energy, and strategies to reduce CH_4 emissions from agricultural and other wastes.

The *2017 Scoping Plan* establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40% decrease in 1990 levels by 2030 (39).

California's climate strategy would require contributions from all sectors of the economy, including the land base, and would include enhanced focus on zero and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH_4, black carbon, and fluorinated gases); and an increased focus on integrated land

use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries would further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the *2017 Scoping Plan* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing zero-emission vehicles (ZEV) buses and trucks.
- LCFS, with an increased stringency (18% by 2030).
- Implementing SB 350, which expands the RPS to 50% RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH_4 and HCF emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Note, however, that the *2017 Scoping Plan* acknowledges that:

> *"[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA."*

In addition to the statewide strategies listed above, the *2017 Scoping Plan* also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidence-based bright-line numeric thresholds—consistent with the *2017 Scoping Plan* and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and mitigation measures that avoid or minimize project emissions to the degree feasible; or a performance-based metric using a Climate Action Plan (CAP) or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year ($MTCO_2e$/yr.), indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80% reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (40).

2022 CARB SCOPING PLAN

On December 15, 2022, CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) (41). The 2022 Scoping Plan builds on the 2017 Scoping Plan as well as the requirements set forth by AB 1279, which directs the state to become carbon neutral no later than 2045. To achieve this statutory objective, the 2022 Scoping Plan lays out how California can reduce GHG emissions by 85% below 1990 levels and achieve carbon neutrality by 2045. The Scoping Plan strategy to do this is to "deploy a broad portfolio of existing and emerging fossil fuel alternatives and clean technologies, and align with statutes, Executive Orders, Board direction, and direction from the governor." In the updated Scoping Plan, CARB no longer includes a numeric per capita threshold and instead advocates for compliance with a local GHG reduction strategy (CAP) consistent with *CEQA Guidelines* section 15183.5.

The key elements of the 2022 CARB Scoping Plan focus on transportation - the regulations that will impact this sector are adopted and enforced by CARB on vehicle manufacturers and outside the jurisdiction and control of local governments. As stated in the Plan's executive summary:

> "The major element of this unprecedented transformation is the aggressive reduction of fossil fuels wherever they are currently used in California, building on and accelerating carbon reduction programs that have been in place for a decade and a half. That means rapidly moving to zero-emission transportation; electrifying the cars, buses, trains, and trucks that now constitute California's single largest source of planet-warming pollution."
>
> "[A]pproval of this plan catalyzes a number of efforts, including the development of new regulations as well as amendments to strengthen regulations and programs already in place, not just at CARB but across state agencies."

Under the 2022 Scoping Plan, the State will lead efforts to meet the 2045 carbon neutrality goal through implementation of the following objectives:

- Reimagine roadway projects that increase VMT in a way that meets community needs and reduces the need to drive.
- Double local transit capacity and service frequencies by 2030.

- Complete the High-Speed Rail (HSR) System and other elements of the intercity rail network by 2040.
- Expand and complete planned networks of high-quality active transportation infrastructure.
- Increase availability and affordability of bikes, e-bikes, scooters, and other alternatives to light-duty vehicles, prioritizing needs of underserved communities.
- Shift revenue generation for transportation projects away from the gas tax into more durable sources by 2030.
- Authorize and implement roadway pricing strategies and reallocate revenues to equitably improve transit, bicycling, and other sustainable transportation choices.
- Prioritize addressing key transit bottlenecks and other infrastructure investments to improve transit operational efficiency over investments that increase VMT.
- Develop and implement a statewide transportation demand management (TDM) framework with VMT mitigation requirements for large employers and large developments.
- Prevent uncontrolled growth of autonomous vehicle (AV) VMT, particularly zero-passenger miles.
- Channel new mobility services towards pooled use models, transit complementarity, and lower VMT outcomes.
- Establish an integrated statewide system for trip planning, booking, payment, and user accounts that enables efficient and equitable multimodal systems.
- Provide financial support for low-income and disadvantaged Californians' use of transit and new mobility services.
- Expand universal design features for new mobility services.
- Accelerate infill development in existing transportation-efficient places and deploy strategic resources to create more transportation-efficient locations.
- Encourage alignment in land use, housing, transportation, and conservation planning in adopted regional plans (RTP/SCS and RHNA) and local plans (e.g., general plans, zoning, and local transportation plans).
- Accelerate production of affordable housing in forms and locations that reduce VMT and affirmatively further fair housing policy objectives.
- Reduce or eliminate parking requirements (and/or enact parking maximums, as appropriate) and promote redevelopment of excess parking, especially in infill locations.
- Preserve and protect existing affordable housing stock and protect existing residents and businesses from displacement and climate risk.

Included in the 2022 Scoping Plan is a set of Local Actions (Appendix D to the 2022 Scoping Plan) aimed at providing local jurisdictions with tools to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan includes a section on evaluating plan-level and project-level alignment with the State's Climate Goals in CEQA GHG analyses. In this section, CARB identifies several recommendations and strategies that should be considered for new development in order to determine consistency with the 2022 Scoping Plan. Notably, this section is focused on Residential and Mixed-Use Projects, in fact CARB states in Appendix D (page 4): "…focuses primarily on climate action plans

(CAPs) and local authority over new residential development. It does not address other land use types (e.g., industrial) or air permitting."

Additionally on Page 21 in Appendix D, CARB states: "The recommendations outlined in this section apply only to residential and mixed-use development project types. California currently faces both a housing crisis and a climate crisis, which necessitates prioritizing recommendations for residential projects to address the housing crisis in a manner that simultaneously supports the State's GHG and regional air quality goals. CARB plans to continue to explore new approaches for other land use types in the future." As such, it would be inappropriate to apply the requirements contained in Appendix D of the 2022 Scoping Plan to any land use types other than residential or mixed-use residential development.

CAP-AND-TRADE PROGRAM

The *2017 Scoping Plan* identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program would help put California on the path to meet its goal of achieving a 40% reduction in GHG emissions from 1990 levels by 2030. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap would be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and would decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25,000 $MTCO_2e$/yr must comply with the Cap-and-Trade Program. Triggering of the 25,000 $MTCO_2e$/yr "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year's compliance obligation by November of each year (42).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the *First Update to the Climate Change Scoping Plan*:

> *"The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative."* (43)

The Cap-and-Trade Program covers approximately 80% of California's GHG emissions (39). The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

2.7.3.2 EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

EXECUTIVE ORDER S-3-05

Executive Order S-3-05 specifies the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80% below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that would stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

EXECUTIVE ORDER S-01-07 (LCFS)

Executive Order S-01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. CARB adopted the LCFS on April 23, 2009.

After a series of legal changes, in order to address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS

regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015, the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

In 2018, CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (44).

EXECUTIVE ORDER S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the *2009 California Climate Adaptation Strategy* (*CNRA 2009*) was adopted, which is the "…first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying, and exploring strategies to adapt to climate change, and specifying a direction for future research.

EXECUTIVE ORDER B-30-15

Executive Order B-30-15 establishes a California GHG reduction target of 40% below 1990 levels by 2030. The Governor's executive order aligned California's GHG reduction targets with those of leading international governments ahead of the U.N. Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the *2017 Scoping Plan* to express the 2030 target in terms of $MMTCO_2e$. The Order also requires the state's climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable to local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

EXECUTIVE ORDER B-55-18 AND SB 100

SB 100 and Executive Order B-55-18 were passed on September 10, 2018. Under the existing RPS, 25% of retail sales of electricity are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum

quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California EPA (CalEPA), the California Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

2.7.3.3 California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 CCR Sections 1601 et seq. – Appliance Efficiency Regulations

The Appliance Efficiency Regulations regulate the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles (RV) or other mobile equipment (CEC 2012).

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. 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 (45). 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 (46):

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).
- 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. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 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 reuse 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.

CARB REFRIGERANT MANAGEMENT PROGRAM

CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

SB 97 AND THE CEQA GUIDELINES UPDATE

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research (OPR) shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a)."

In 2012, Public Resources Code Section 21083.05 was amended to state:

> *"The Office of Planning and Research and the Natural Resources Agency shall periodically update the guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption, to incorporate new information or criteria established by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code."*

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the *CEQA Guidelines* for implementing CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing *CEQA Guidelines* to reference climate change.

Section 15064.4 was added to the *CEQA Guidelines* and states that in determining the significance of a project's GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively insignificant compared to statewide, national, or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (47).

2.7.4 Regional Regulatory Framework

The Project is within the SCAB, which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, which could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD

Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:
  - Residential and commercial land use: 3,000 $MTCO_2e$/yr.
  - Industrial land use: 10,000 $MTCO_2e$/yr.
  - Based on land use type: residential: 3,500 $MTCO_2e$/yr.; commercial: 1,400 $MTCO_2e$/yr.; or mixed use: 3,000 $MTCO_2e$/yr.
- Tier 4 has the following options:
  - Option 1: Reduce Business-as-Usual (BAU) emissions by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$ per SP per year for projects and 6.6 $MTCO_2e$ per SP per year for plans.
  - Option 3, 2035 target: 3.0 $MTCO_2e$ per SP per year for projects and 4.1 $MTCO_2e$ per SP per year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO_2 concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the Project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.

- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD would fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

2.7.5 LOCAL

CITY OF PERRIS CLIMATE ACTION PLAN (CAP)

The City of Perris CAP was adopted by the City Council (Resolution Number 4966) on February 23, 2016 (48). The CAP was developed to address global climate change through the reduction of harmful GHG emissions at the community level, and as part of California's mandated statewide GHG emissions reduction goals under AB 32. Perris's CAP, including the GHG inventories and forecasts contained within, is based on WRCOG's Subregional CAP. The Perris CAP utilized WRCOG's analysis of existing GHG reduction programs and policies that have already been implemented in the subregion and applicable best practices from other regions to assist in meeting the 2020 subregional reduction target. The CAP reduction measures chosen for the City's CAP were based on their GHG reduction potential, cost-benefit characteristics, funding availability, and feasibility of implementation in the City of Perris. The CAP used an inventory base year of 2010 and included emissions from the following sectors: residential energy, commercial/industrial energy, transportation, waste, and wastewater. The CAP's 2020 reduction target is 15% below 2010 levels, and the 2035 reduction target is 47.5% below 2010 levels. The City of Perris is expected to meet these reduction targets through implementation of statewide and local measures. Beyond 2020, Executive Order S-03-05 calls for a reduction of GHG emissions to a level 80% below 1990 levels by 2050.

CITY OF PERRIS GOOD NEIGHBOR GUIDELINES (GNG)

The City of Perris Good Neighbor Guidelines (GNG) apply to all new warehouse, logistics, and distribution facilities ("industrial uses"). In addition, the Perris GNG acts as a supplement to the City's Zoning Code and Specific Plans. Project level review under CEQA would continue to apply to any project, regardless of the total square footage. The approving authority has the discretion and authority to approve projects that deviate from the guidance provided in this policy, provided adequate justifications are provided by the Applicant. The City of Perris GNG includes the following goals:

- Ensure air quality and health risks, and noise impacts are evaluated;
- Protect public health, safety, and welfare by regulating the design, location, and operation of warehouse/distribution facilities; and
- Protect sensitive receptors, including neighborhood character of residential communities in the City of Perris.

The proposed goals and policies in the Perris GNG aim at balancing economic growth, industrial development, and business success while implementing methods for the reduction of potential negative impacts on sensitive receptors. There are five areas that would benefit from the goals and policies in the Perris GNG: Neighborhood Character; Reduction of Engine Emissions; Elimination of Trucks in Residential Areas; Buffers between Warehouses and Sensitive Receptors; and Educational Training, Public Outreach, and Community Engagement.

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3 PROJECT GHG IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it would result in a significant GHG impact. The significance of these potential impacts is described in the following sections.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State *CEQA Guidelines* (14 CCR of Regulations §§15000, et seq.). Based on these significance criteria, a project would result in a significant impact related to GHG if it would (49):

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a "threshold of significance." For establishing significance thresholds, the Office of Planning and Research's amendments to the CEQA Guidelines Section 15064.7(c) state "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

CEQA Guidelines Section 15064.4(a) further states, ". . . A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use . . .; or (2) Rely on a qualitative analysis or performance-based standards."

CEQA Guidelines Section 15064.4 provides that a lead agency should consider the following factors, among others, in assessing the significance of impacts from greenhouse gas emissions:

- **Consideration #1**: The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- **Consideration #2**: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration #3**: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial

> evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

Section 15064.4 thus provides options for determining whether GHG emissions are significant. It does not establish a threshold of significance or require that a numeric threshold of significance be used. If lead agencies require quantification, they have the discretion to establish significance thresholds for their respective jurisdictions, and, in establishing those thresholds, a lead agency may appropriately look to thresholds developed by other public agencies, or suggested by other experts, such as the California Air Pollution Control Officers Association (CAPCOA), as long as any threshold chosen is supported by substantial evidence (see CEQA Guidelines Section 15064.7(c)). The CEQA Guidelines also clarify that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis (see CEQA Guidelines Section 15130(f)).

3.2.1 THRESHOLDS OF SIGNIFICANCE

As discussed previously, the SCAQMD has incorporated its adopted 10,000 $MTCO_2e$/yr threshold for industrial projects into its latest (2023) South Coast AQMD Air Quality Significance Thresholds document that is published for use by local agencies. In the absence of other thresholds of significance adopted by the SCAQMD, the City of Perris has been using a 3,000 $MTCO_2e$/yr threshold for mixed-use projects for the purpose of evaluating the GHG impacts associated with proposed general development projects. Because the proposed Project includes both industrial uses as well as commercial uses, it is considered to be a mixed-use project. The City's use of the 3,000 metric tons of CO_2e threshold for the proposed Project is also considered to be appropriate because a Specific Plan Amendment is proposed to change the existing land use plan of the Specific Plan area to replace residential uses with Multiple Business and Commercial uses. As such, the 3,000 metric tons of CO_2e per year threshold applies to the proposed Commercial land use designations for the Project site.

3.3 MODELS EMPLOYED TO ANALYZE GHGS

3.3.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (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; and quantify applicable air quality and GHG reductions achieved from mitigation measures (50). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.5. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water, refrigerants, and stationary sources.

3.4 LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (51). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the Project development, infrastructure, and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time, an LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood, or documented, and would be challenging to mitigate (52). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.5 CONSTRUCTION EMISSIONS

Project construction activities would generate CO_2, CH_4, N_2O and Refrigerant emissions. The *Harvest Landing Specific Plan Air Quality Impact Analysis Report* (AQIA) contains detailed information regarding Project construction activities (12). As discussed in the AQIA, construction-related emissions are expected from the following activities:

OFF-SITE IMPROVEMENTS

- Linear, Grading & Excavation
- Linear, Drainage, Utilities, & Sub-Grade
- Linear, Paving

PHASE 1

- Demolition/Crushing
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

PHASE 2

- Demolition
- Site Preparation
- Grading
- Building Construction

- Paving
- Architectural Coating

3.5.1 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. The construction schedule utilized in the analysis, shown in Table 3-1 represent a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[5] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (53).

TABLE 3-1: 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 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

[5] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

3.5.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Tables 3-2 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.

TABLE 3-2: 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
	Site Preparation	Rubber Tired Dozers	6	8
		Crawler Tractors	8	8
		Graders	6	8

Phase	Construction Activity	Equipment[1]	Quantity	Hours Per Day
	Grading	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.

3.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year Project life then adding that number to the annual operational phase GHG emissions (54). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 3-3, respectively. It should be noted that the construction emissions presented on Table 3-3 conservatively represent the With Overlay Scenario only, as the construction schedule, equipment and other assumptions would remain the same.

TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Phase	Year	Emissions (MT/yr.)				
		CO_2	CH_4	N_2O	Refrigerants	Total CO_2e[A]
Off-Site	2026	106.16	0.00	0.00	0.01	106.62
Phase 1 (2025 OY)	2025	217.19	0.01	0.01	0.06	219.98
	2026	6,978.71	0.20	0.44	4.46	7,118.97
Phase 2 (2030 OY)	2026	25.59	0.00	0.00	0.01	26.20
	2027	1,562.72	0.05	0.10	0.66	1,593.82
	2028	2,898.90	0.09	0.22	1.24	2,967.92
	2029	3,622.59	0.08	0.24	2.75	3,698.66
	2030	4,618.47	0.09	0.25	3.77	4,698.74
Total Construction Emissions		**20,030.34**	**0.52**	**1.26**	**12.97**	**20,430.91**
Amortized Construction Emissions		**667.68**	**0.02**	**0.04**	**0.43**	**681.03**

Source: CalEEMod annual construction-source emissions are presented in Appendix 3.1.

[A] CalEEMod reports the most common GHGs emitted which include CO_2, CH_4, N_2O and Refrigerants. These GHGs are then converted into CO_2e by multiplying the individual GHG by the GWP.

3.6 OPERATIONAL EMISSIONS

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, Sections 3.6.3 Mobile Source Emissions and 3.7 Emissions Summary include 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 and Without Overlay Scenario is presented in the Table headings, as shown in Tables 3-7 – 3-10.

Operational activities associated with the Project would result in emissions of CO_2, CH_4, N_2O and Refrigerants from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- Stationary Source Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste
- Refrigerants

3.6.1 AREA SOURCE EMISSIONS

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that on October 9, 2021, California adopted AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by January 1, 2024, which is now in effect. However, for purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod, and do not incorporate the emissions reductions that would be realized from implementation of AB 1346.

3.6.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building; the building energy use emissions do not include street lighting[6]. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Electricity usage associated with the Project were calculated by CalEEMod using default parameters. 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.

[6] The CalEEMod emissions inventory model does not include indirect emission related to street lighting. Indirect emissions related to street lighting are expected to be negligible and cannot be accurately quantified at this time as there is insufficient information as to the number and type of street lighting that would occur.

3.6.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee and customer trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Harvest Landing Retail Center & Business Park Project Traffic Impact Analysis* were utilized in this analysis (13).

COMMERCIAL TRIP LENGTHS

For purposes of analysis, CalEEMod default parameters for trip lengths and fleet mix were used to determine mobile-source emissions from the commercial uses.

INDUSTRIAL TRIP LENGTHS

For the proposed industrial uses, CalEEMod default trip lengths for passenger vehicles were utilized in the analysis under both Scenario A and Scenario B. As discussed previously, this analysis includes two separate truck trip length Scenarios which are discussed in the section below.

SCENARIO A

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated for Scenario A, truck trip lengths based on the SCAQMD's WAIRE Program recommended truck trip length of 15.3 miles for 2-axle (LHDT1 and LHDT2), 14.2 miles for 3-axle (MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from *Harvest Landing Retail Center & Business Park Project Traffic Analysis*, as shown in Table 3-8. This trip length assumption is higher than the CalEEMod default trip length.

SCENARIO B

Scenario B truck trip lengths were obtained from StreetLight, which is based on truck trip length survey data. The StreetLight data indicated 31 miles for LHDT and MHDT trucks and 71 miles for HHDT trucks. These lengths were then weighed and averaged based on traffic trip percentages taken from the *Harvest Landing Retail Center & Business Park Project Traffic Analysis*, as shown in Table 3-8. This trip length assumption is higher than the CalEEMod default trip length and SCAQMD recommended trip lengths.

INDUSTRIAL PASSENGER FLEET MIX

For the proposed industrial uses, the *Harvest Landing Specific Plan Traffic Analysis* does not provide a specific breakdown for passenger cars. Therefore, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[7] & LDT2[8]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars for the industrial uses, the fleet mix in Table 3-4 was utilized.

[7] 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.

[8] 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 3-4: PASSENGER CAR FLEET MIX – SCENARIO A AND SCENARIO B

Phase	Land Use	% Vehicle Type				
		LDA	LDT1	LDT2	MDV	MCY
Phase 1 (2026)	TUMF High Cube (Building 2, 6, and 7)	53.90%	4.13%	22.26%	17.20%	2.51%
	Parcel Hub (Building 1)					
	General Light Industrial (Building 3, 4, and 5)					
Phase 2 (2030)	Industrial Park	53.47%	3.75%	23.69%	16.72%	2.38%
	Industrial Park (Overlay)					
Project Buildout (Phase 1 + Phase 2, 2030)	TUMF High Cube (Building 2, 6, and 7)	53.47%	3.75%	23.69%	16.72%	2.38%
	Parcel Hub (Building 1)					
	General Light Industrial (Building 3, 4, and 5)					
	Industrial Park					
	Industrial Park (Overlay)					

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

INDUSTRIAL TRUCK FLEET MIX

Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[9] & LHDT2[10])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the fleet mix in Table 3-5 was utilized.

TABLE 3-5: TRUCK FLEET MIX – SCENARIO A AND SCENARIO B

Phase	Land Use	Trip Length (miles)		% Vehicle Type			
		Scenario A	Scenario B	LHDT1	LHDT2	MHDT	HHDT
Phase 1 (2026)	TUMF High Cube (Building 2, 6, and 7)	29.94	55.12	17.20%	4.90%	17.60%	60.30%
	Parcel Hub (Building 1)	29.92	55.09	17.15%	4.89%	17.74%	60.22%
	General Light Industrial (Building 3, 4, and 5)	29.97	55.18	17.10%	4.88%	17.58%	60.44%
Phase 2 (2030)	Industrial Park	29.96	55.15	17.02%	4.88%	17.72%	60.37%
	Industrial Park (Overlay)	30.01	55.24	16.88%	4.84%	17.68%	60.61%
Project Buildout (Phase 1 + Phase 2, 2030)	TUMF High Cube (Building 2, 6, and 7)	29.94	55.12	17.17%	4.92%	17.60%	60.30%
	Parcel Hub (Building 1)	29.92	55.09	17.13%	4.91%	17.74%	60.22%
	General Light Industrial (Building 3, 4, and 5)	29.97	55.18	17.08%	4.90%	17.58%	60.44%

[9] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[10] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

Phase	Land Use	Trip Length (miles)		% Vehicle Type			
		Scenario A	Scenario B	LHDT1	LHDT2	MHDT	HHDT
	Industrial Park	29.96	55.15	17.02%	4.88%	17.72%	60.37%
	Industrial Park (Overlay)	30.01	55.24	16.88%	4.84%	17.68%	60.61%

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

3.6.4 STATIONARY SOURCE EMISSIONS

The Project was also conservatively assumed to include installation of diesel-powered fire pumps and diesel-powered emergency generators for both the industrial and commercial portion of the Project. 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. Emissions associated with the stationary diesel-powered emergency fire pumps and emergency generators were calculated using CalEEMod. Table 3-6 summarizes the horsepower and equipment quantity of fire pumps and emergency generators anticipated for the Project for the With Overlay Scenario and Without Overlay Scenario.

TABLE 3-6: STATIONARY SOURCE EQUIPMENT – WITH AND WITHOUT OVERLAY

Phase	Equipment	HP Rating	Equipment Quantity	
			With Overlay	Without Overlay
1	Fire Pump	300	7	7
	Emergency Generator	300	5	5
2	Fire Pump	300	16	15
	Emergency Generator	300	16	15

3.6.5 WATER SUPPLY, TREATMENT, AND DISTRIBUTION

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Unless otherwise noted, CalEEMod default parameters were used.

3.6.6 SOLID WASTE

The proposed uses would result in the generation and disposal of solid waste. A percentage of this waste would be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted would be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by CalEEMod using default parameters.

3.6.7 REFRIGERANTS

Air conditioning (A/C) and refrigeration equipment associated with the buildings are anticipated to generate GHG emissions. CalEEMod automatically generates a default A/C and refrigeration equipment inventory for each project land use subtype based on industry data from the USEPA (2016b). CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate. Note that CalEEMod does not quantify emissions from the disposal of refrigeration and A/C equipment at the end of its lifetime. Per 17 CCR 95371, new facilities with refrigeration equipment containing more than 50 pounds of refrigerant are prohibited from utilizing refrigerants with a GWP of 150 or greater as of January 1, 2022. Additionally, beginning January 1, 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. GHG emissions associated with refrigerants were calculated by CalEEMod using default parameters.

3.6.8 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

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 [11]. Each piece of equipment was modeled as a 175-horsepower natural gas-powered port tractor and assumed to operate 4 hours a day[12] for 365 days of the year. 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, which was included as Mitigation Measure AQ-10.

[11] 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.

[12] 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.

3.7 GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

3.7.1 GHG IMPACT 1

GHG-1: Would the Project generate GHG emissions either directly or indirectly, that may have a significant impact on the environment?

EMISSIONS SUMMARY

As mentioned previously, 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, the Operational Emissions Summary below includes separate sections for both Scenario A and Scenario B trip lengths to clearly summarize each Scenario.

Additionally, as mentioned previously, for analysis purposes, 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 below in Tables 3-7 through 3-10.

EMISSIONS WITHOUT MITIGATION

SCENARIO A – WITHOUT MITIGATION

The estimated Project-related GHG emissions prior to mitigation for Scenario A is summarized in Table 3-7 for the With Overlay and Table 3-8 for the Without Overlay. Detailed operation model outputs for the Project are presented in Appendix 3.2 for With Overlay and Appendix 3.3 for the Without Overlay.

With Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 39,767.50 $MTCO_2e/yr$
- Phase 2 (2030 OY): 46,623.48 $MTCO_2e/yr$

- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 82,869.42 $MTCO_2e/yr$

TABLE 3-7: GHG EMISSIONS – SCENARIO A WITH OVERLAY SCENARIO (WITHOUT MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	32,009.86	1.57	2.31	47.71	32,784.17
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Usage	645.99	14.72	0.35	0.00	1,119.46
Waste	314.72	31.45	0.00	0.00	1,101.08
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO_2e (All Sources)	**39,767.50**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	32,072.13	0.76	3.87	31.38	33,277.24
Area Source	81.28	0.00	0.00	0.00	81.58
Energy Source	8,269.94	1.05	0.13	0.00	8,333.90
Water Usage	1,064.55	30.25	0.73	0.00	2,037.76
Waste	443.45	44.32	0.00	0.00	1,551.48
Refrigerants	0.00	0.00	0.00	62.04	62.04
Stationary Source	182.78	0.01	0.00	0.00	183.39
On-Site Equipment	0.00	0.00	0.00	0.00	663.25
Total CO_2e (All Sources)	**46,623.48**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	61,549.09	2.09	5.95	61.53	63,435.55
Area Source	125.22	0.01	0.00	0.00	125.67
Energy Source	11,290.60	1.41	0.17	0.00	11,375.34
Water Usage	1,586.46	44.96	1.08	0.00	3,033.14
Waste	758.16	75.78	0.00	0.00	2,652.56
Refrigerants	0.00	0.00	0.00	319.08	319.08

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Stationary Source	251.33	0.01	0.00	0.00	252.17
On-Site Equipment	0.00	0.00	0.00	0.00	994.88
Total CO_2e (All Sources)	**82,869.42**				

Source: CalEEMod output, See Appendix 3.2 for detailed model outputs.

Without Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 39,767.50 $MTCO_2e$/yr
- Phase 2 (2030 OY): 42,621.95 $MTCO_2e$/yr
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 78,867.88 $MTCO_2e$/yr

TABLE 3-8: GHG EMISSIONS – SCENARIO A WITHOUT OVERLAY SCENARIO (WITHOUT MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	32,009.86	1.57	2.31	47.71	32,784.17
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Usage	645.99	14.72	0.35	0.00	1,119.46
Waste	314.72	31.45	0.00	0.00	1,101.08
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO_2e (All Sources)	**39,767.50**				

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	29,280.92	0.69	3.54	28.66	30,381.00
Area Source	74.22	0.00	0.00	0.00	74.49
Energy Source	7,551.34	0.96	0.12	0.00	7,609.75
Water Usage	974.09	27.62	0.66	0.00	1,862.75
Waste	404.92	40.47	0.00	0.00	1,416.66
Refrigerants	0.00	0.00	0.00	56.65	56.65
Stationary Source	171.36	0.01	0.00	0.00	171.93
On-Site Equipment	0.00	0.00	0.00	0.00	615.88
Total CO_2e (All Sources)	**42,621.95**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	58,757.88	2.02	5.61	58.81	60,539.31
Area Source	118.16	0.00	0.00	0.00	118.58
Energy Source	10,572.00	1.32	0.16	0.00	10,651.19
Water Usage	1,496.00	42.34	1.02	0.00	2,858.13
Waste	719.63	71.92	0.00	0.00	2,517.75
Refrigerants	0.00	0.00	0.00	313.69	313.69
Stationary Source	239.90	0.01	0.00	0.00	240.70
On-Site Equipment	0.00	0.00	0.00	0.00	947.50
Total CO_2e (All Sources)	**78,867.88**				

Source: CalEEMod output, See Appendix 3.3 for detailed model outputs.

SCENARIO B – WITHOUT MITIGATION

The estimated Project-related GHG emissions prior to mitigation for Scenario B, is summarized in Table 3-9 for the With Overlay Scenario and Table 3-10 for the Without Overlay Scenario. Detailed operation model outputs for the Project are presented in Appendix 3.3 for With Overlay Scenario and Appendix 3.4 for the Without Overlay Scenario.

With Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Project Buildout (Phase 1 + Phase 2) for the With Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 45,462.85 $MTCO_2e/yr$
- Phase 2 (2030 OY): 67,842.17 $MTCO_2e/yr$
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 109,258.10 $MTCO_2e/yr$

TABLE 3-9: GHG EMISSIONS – SCENARIO B WITH OVERLAY SCENARIO (WITHOUT MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	37,455.74	1.64	3.11	54.78	38,479.52
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Usage	645.99	14.72	0.35	0.00	1,119.46
Waste	314.72	31.45	0.00	0.00	1,101.08
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO_2e (All Sources)	**45,462.85**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	52,365.97	1.04	6.89	51.57	54,495.93
Area Source	81.28	0.00	0.00	0.00	81.58
Energy Source	8,269.94	1.05	0.13	0.00	8,333.90
Water Usage	1,064.55	30.25	0.73	0.00	2,037.76
Waste	443.45	44.32	0.00	0.00	1,551.48
Refrigerants	0.00	0.00	0.00	62.04	62.04
Stationary Source	182.78	0.01	0.00	0.00	183.39
On-Site Equipment	0.00	0.00	0.00	0.00	663.25
Total CO_2e (All Sources)	**67,842.17**				

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	86,787.66	2.43	9.70	86.65	89,824.23
Area Source	125.22	0.01	0.00	0.00	125.67
Energy Source	11,290.60	1.41	0.17	0.00	11,375.34
Water Usage	1,586.46	44.96	1.08	0.00	3,033.14
Waste	758.16	75.78	0.00	0.00	2,652.56
Refrigerants	0.00	0.00	0.00	319.08	319.08
Stationary Source	251.33	0.01	0.00	0.00	252.17
On-Site Equipment	0.00	0.00	0.00	0.00	994.88
Total CO_2e (All Sources)	**109,258.10**				

Source: CalEEMod output, See Appendix 3.4 for detailed model outputs.

Without Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. GHG Emissions associated with Phases 1, Phase 2 and Project Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 45,462.85 $MTCO_2e$/yr
- Phase 2 (2030 OY): 61,991.43 $MTCO_2e$/yr
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 103,407.36 $MTCO_2e$/yr

TABLE 3-10: GHG EMISSIONS – SCENARIO B WITHOUT OVERLAY SCENARIO (WITHOUT MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	37,455.74	1.64	3.11	54.78	38,479.52
Area Source	43.93	0.00	0.00	0.00	44.09
Energy Source	3,839.67	0.36	0.04	0.00	3,860.45
Water Usage	645.99	14.72	0.35	0.00	1,119.46
Waste	314.72	31.45	0.00	0.00	1,101.08
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
On-Site Equipment	0.00	0.00	0.00	0.00	284.25
Total CO_2e (All Sources)	**45,462.85**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	47,806.19	0.95	6.29	47.09	49,750.48
Area Source	74.22	0.00	0.00	0.00	74.49
Energy Source	7,551.34	0.96	0.12	0.00	7,609.75
Water Usage	974.09	27.62	0.66	0.00	1,862.75
Waste	404.92	40.47	0.00	0.00	1,416.66
Refrigerants	0.00	0.00	0.00	56.65	56.65
Stationary Source	171.36	0.01	0.00	0.00	171.93
On-Site Equipment	0.00	0.00	0.00	0.00	615.88
Total CO_2e (All Sources)	**61,991.43**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	82,227.88	2.34	9.09	82.17	85,078.79
Area Source	118.16	0.00	0.00	0.00	118.58
Energy Source	10,572.00	1.32	0.16	0.00	10,651.19
Water Usage	1,496.00	42.34	1.02	0.00	2,858.13
Waste	719.63	71.92	0.00	0.00	2,517.75
Refrigerants	0.00	0.00	0.00	313.69	313.69
Stationary Source	239.90	0.01	0.00	0.00	240.70
On-Site Equipment	0.00	0.00	0.00	0.00	947.50
Total CO_2e (All Sources)	**103,407.36**				

Source: CalEEMod output, See Appendix 3.5 for detailed model outputs.

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$/yr for all projects (55).

Scenario A

For Scenario A, as shown construction and operation of the Project would generate a total of approximately 82,869.42 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario and 78,867.88 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario, which would exceed the significance threshold of 3,000 $MTCO_2e$/yr; therefore, Project-related GHG emissions are considered potentially significant. The majority of the GHG emissions (77%) for the With Overlay and (77%) for the Without Overlay are associated with non-construction-related mobile sources, as shown previously on Tables 3-7 and 3-8. Emissions of motor vehicles are controlled by State and Federal standards, and the Project has no control over these emissions.

Scenario B

For Scenario B, as shown construction and operation of the Project would generate a total of approximately 109,258.10 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario and 103,407.36 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario, which would exceed the significance threshold of 3,000 $MTCO_2e$/yr; therefore, Project-related GHG emissions are considered potentially significant. The majority of the GHG emissions (82%) for the With Overlay and (82%) for the Without Overlay are associated with non-construction-related mobile sources, as shown previously on Tables 3-9 and 3-10. Emissions of motor vehicles are controlled by State and Federal standards, and the Project has no control over these emissions.

LEVEL OF SIGNIFICANCE BEFORE MITIGATION

Potentially Significant.

MITIGATION MEASURES

The following Project-specific mitigation measures (MM AQ-8 through MM AQ-19) were identified in the *Harvest Landing Specific Plan Air Quality Impact Analysis Report* (AQIA) (Urban Crossroads, Inc.) (12) Additionally, there are Project-specific GHG mitigation measures as summarized below. These measures are designed to reduce Project operational-source emissions. With implementation of mitigation measure MM AQ-10, the analysis assumed that all operational off-road equipment would be electric-powered and under mitigation measure MM AQ-16 landscaping equipment was assumed to be electric powered. Additionally, with implementation of mitigation measure MM GHG-1, a recycling composite program would be

provided that would divert 50% of waste for the commercial uses and 60% for the industrial uses which was assumed in the analysis. Under mitigation measure MM GHG-3, the analysis assumed a 20 percent reduction in indoor and outdoor water usage and under 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 emissions, no reductions in emissions 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 emissions.

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.

EMISSIONS WITH MITIGATION

SCENARIO A – WITH MITIGATION

The estimated Project-related GHG emissions with mitigation for Scenario A is summarized in Table 3-11 for the With Overlay and Table 3-12 for the Without Overlay. Detailed operation

model outputs for the Project are presented in Appendix 3.2 for With Overlay and Appendix 3.3 for Without Overlay.

With Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as Phase becomes operational. Mitigated GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 38,167.70 $MTCO_2e/yr$
- Phase 2 (2030 OY): 44,392.99 $MTCO_2e/yr$
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 79,114.37 $MTCO_2e/yr$

TABLE 3-11: GHG EMISSIONS – SCENARIO A WITH OVERLAY SCENARIO (WITH MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	32,009.86	1.57	2.31	47.71	32,784.17
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	3,479.15	0.33	0.04	0.00	3,497.83
Water Usage	470.21	10.68	0.26	0.00	813.71
Waste	142.34	14.23	0.00	0.00	497.99
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
Total CO_2e (All Sources)	**38,167.70**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	32,072.13	0.76	3.87	31.38	33,277.24
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	8,274.89	1.05	0.13	0.00	8,338.89
Water Usage	772.98	21.91	0.53	0.00	1,477.99

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Waste	177.38	17.73	0.00	0.00	620.59
Refrigerants	0.00	0.00	0.00	62.04	62.04
Stationary Source	182.78	0.01	0.00	0.00	183.39
Total CO_2e (All Sources)	**44,392.99**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	61,549.09	2.09	5.95	61.53	63,435.55
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	11,023.97	1.38	0.16	0.00	11,106.66
Water Usage	1,152.79	32.59	0.78	0.00	2,201.30
Waste	319.72	31.95	0.00	0.00	1,118.58
Refrigerants	0.00	0.00	0.00	319.08	319.08
Stationary Source	251.33	0.01	0.00	0.00	252.17
Total CO_2e (All Sources)	**79,114.37**				

Source: CalEEMod output, See Appendix 3.2 for detailed model outputs.

Without Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. Mitigated GHG Emissions associated with Phases 1, Phase 2 and Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 38,167.70 $MTCO_2e$/yr
- Phase 2 (2030 OY): 40,574.60 $MTCO_2e$/yr
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 75,295.97 $MTCO_2e$/yr

TABLE 3-12: GHG EMISSIONS – SCENARIO A WITHOUT OVERLAY SCENARIO (WITH MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	32,009.86	1.57	2.31	47.71	32,784.17
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	3,479.15	0.33	0.04	0.00	3,497.83
Water Usage	470.21	10.68	0.26	0.00	813.71
Waste	142.34	14.23	0.00	0.00	497.99
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
Total CO_2e (All Sources)	**38,167.70**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	29,280.92	0.69	3.54	28.66	30,381.00
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	7,555.86	0.96	0.12	0.00	7,614.30
Water Usage	707.45	20.01	0.48	0.00	1,351.21
Waste	161.97	16.19	0.00	0.00	566.67
Refrigerants	0.00	0.00	0.00	56.65	56.65
Stationary Source	171.36	0.01	0.00	0.00	171.93
Total CO_2e (All Sources)	**40,574.60**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	58,757.88	2.02	5.61	58.81	60,539.31
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	10,304.95	1.28	0.15	0.00	10,382.07
Water Usage	1,087.26	30.68	0.74	0.00	2,074.52
Waste	304.30	30.41	0.00	0.00	1,064.65
Refrigerants	0.00	0.00	0.00	313.69	313.69
Stationary Source	239.90	0.01	0.00	0.00	240.70
Total CO_2e (All Sources)	**75,295.97**				

Source: CalEEMod output, See Appendix 3.3 for detailed model outputs.

SCENARIO B – WITH MITIGATION

The estimated Project-related GHG emissions with mitigation for Scenario B, is summarized in Table 3-13 for the With Overlay Scenario and Table 3-14 for the Without Overlay Scenario. Detailed operation model outputs for the Project are presented in Appendix 3.3 for With Overlay Scenario and Appendix 3.4 for Without Overlay Scenario.

With Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. Mitigated GHG Emissions associated with Phases 1, Phase 2 and Project Buildout (Phase 1 + Phase 2) for the With Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 43,863.05 $MTCO_2e/yr$
- Phase 2 (2030 OY): 65,611.68 $MTCO_2e/yr$
- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 105,503.05 $MTCO_2e/yr$

TABLE 3-13: GHG EMISSIONS – SCENARIO B WITH OVERLAY SCENARIO (WITH MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	37,455.74	1.64	3.11	54.78	38,479.52
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	3,479.15	0.33	0.04	0.00	3,497.83
Water Usage	470.21	10.68	0.26	0.00	813.71
Waste	142.34	14.23	0.00	0.00	497.99
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
Total CO_2e (All Sources)	**43,863.05**				

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	52,365.97	1.04	6.89	51.57	54,495.93
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	8,274.89	1.05	0.13	0.00	8,338.89
Water Usage	772.98	21.91	0.53	0.00	1,477.99
Waste	177.38	17.73	0.00	0.00	620.59
Refrigerants	0.00	0.00	0.00	62.04	62.04
Stationary Source	182.78	0.01	0.00	0.00	183.39
Total CO_2e (All Sources)	**65,611.68**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	86,787.66	2.43	9.70	86.65	89,824.23
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	11,023.97	1.38	0.16	0.00	11,106.66
Water Usage	1,152.79	32.59	0.78	0.00	2,201.30
Waste	319.72	31.95	0.00	0.00	1,118.58
Refrigerants	0.00	0.00	0.00	319.08	319.08
Stationary Source	251.33	0.01	0.00	0.00	252.17
Total CO_2e (All Sources)	**105,503.05**				

Source: CalEEMod output, See Appendix 3.4 for detailed model outputs.

Without Overlay Scenario

Operational emissions generated by the proposed Project at full buildout (i.e., 2030) are used to indicate the total amount of GHG emissions for on-going operational emissions. Emissions will be generated when Phase 1 of the Project becomes operational and will increase as each Phase becomes operational. Mitigated GHG Emissions associated with Phases 1, Phase 2 and Project Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario are summarized below.

It should be noted that emission factors decrease as time passes and the analysis year increases due to advancements in technology and increasingly stringent air quality regulations. To reflect these improvements and maintain consistency, the analysis for Phase 1 at Specific Plan Buildout was updated using a 2030 opening year, which is consistent with the anticipated Specific Plan Buildout.

- Phase 1 (2026 OY): 43,863.05 $MTCO_2e/yr$
- Phase 2 (2030 OY): 59,944.09 $MTCO_2e/yr$

- Specific Plan Buildout (Phase 1 + Phase 2) (2030 OY): 99,835.45 $MTCO_2e/yr$

TABLE 3-14: GHG EMISSIONS – SCENARIO B WITHOUT OVERLAY SCENARIO (WITH MITIGATION)

Emission Source	Emissions (MT/yr)				
	CO_2	CH_4	N_2O	Refrigerants	Total CO_2e
Phase 1 (2026)					
Annual construction-related emissions amortized over 30 years	243.40	0.01	0.01	0.15	248.19
Mobile Source	37,455.74	1.64	3.11	54.78	38,479.52
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	3,479.15	0.33	0.04	0.00	3,497.83
Water Usage	470.21	10.68	0.26	0.00	813.71
Waste	142.34	14.23	0.00	0.00	497.99
Refrigerants	0.00	0.00	0.00	257.04	257.04
Stationary Source	68.54	0.00	0.00	0.00	68.77
Total CO_2e (All Sources)	**43,863.05**				
Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	424.28	0.01	0.03	0.28	432.84
Mobile Source	47,806.19	0.95	6.29	47.09	49,750.48
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	7,555.86	0.96	0.12	0.00	7,614.30
Water Usage	707.45	20.01	0.48	0.00	1,351.21
Waste	161.97	16.19	0.00	0.00	566.67
Refrigerants	0.00	0.00	0.00	56.65	56.65
Stationary Source	171.36	0.01	0.00	0.00	171.93
Total CO_2e (All Sources)	**59,944.09**				
Phase 1 + Phase 2 (2030)					
Annual construction-related emissions amortized over 30 years	667.68	0.02	0.04	0.43	681.03
Mobile Source	82,227.88	2.34	9.09	82.17	85,078.79
Area Source	0.00	0.00	0.00	0.00	0.00
Energy Source	10,304.95	1.28	0.15	0.00	10,382.07
Water Usage	1,087.26	30.68	0.74	0.00	2,074.52
Waste	304.30	30.41	0.00	0.00	1,064.65
Refrigerants	0.00	0.00	0.00	313.69	313.69
Stationary Source	239.90	0.01	0.00	0.00	240.70
Total CO_2e (All Sources)	**99,835.45**				

Source: CalEEMod output, See Appendix 3.5 for detailed model outputs.

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$/yr for all projects (55).

Scenario A

For Scenario A with mitigation, as shown construction and operation of the Project would generate a total of approximately 79,114.37 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario and 75,295.97 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario, which would exceed the significance threshold of 3,000 $MTCO_2e$/yr; therefore, Project-related GHG emissions are considered potentially significant. The majority of the GHG emissions (80%) for the With Overlay and (80%) for the Without Overlay are associated with non-construction-related mobile sources, as shown previously on Tables 3-11 and 3-12. Emissions of motor vehicles are controlled by State and Federal standards, and the Project has no control over these emissions.

Scenario B

For Scenario B with mitigation, as shown construction and operation of the Project would generate a total of approximately 105,503.05 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the With Overlay Scenario and 99,835.45 $MTCO_2e$/yr at Specific Plan Buildout (Phase 1 + Phase 2) for the Without Overlay Scenario, which would exceed the significance threshold of 3,000 $MTCO_2e$/yr; therefore, Project-related GHG emissions are considered potentially significant. The majority of the GHG emissions (85%) for the With Overlay and (85%) for the Without Overlay are associated with non-construction-related mobile sources, as shown previously on Tables 3-13 and 3-14. Emissions of motor vehicles are controlled by State and Federal standards, and the Project has no control over these emissions.

LEVEL OF SIGNIFICANCE AFTER MITIGATION

Significant and Unavoidable

At Specific Plan Buildout, under Scenario A the Project has the potential to generate a total of approximately 82,869.42 $MTCO_2e$/yr With Overlay Scenario and 78,867.88 $MTCO_2e$/yr Without Overlay Scenario without mitigation and 79,114.37 $MTCO_2e$/yr With Overlay Scenario and 75,295.97 $MTCO_2e$/yr Without Overlay Scenario with mitigation. At Specific Plan Buildout, under Scenario B the Project has the potential to generate a total of approximately 109,258.10 $MTCO_2e$/yr With Overlay Scenario and 103,407.36 $MTCO_2e$/yr Without Overlay Scenario without mitigation and 105,503.05 $MTCO_2e$/yr With Overlay Scenario and 99,835.45 $MTCO_2e$/yr Without Overlay Scenario with mitigation. As such, the Project would exceed the SCAQMD's numeric threshold of 3,000 $MTCO_2e$/yr. Thus, the Project would have the potential to result in a cumulatively considerable impact with respect to GHG emissions.

Because the majority (over 80% for Scenario A and 85% for Scenario B) of the Project GHG emissions would be generated by Project vehicular sources, the Project cannot feasibly achieve the SCAQMD 3,000 $MTCO_2e$ per year threshold. Because responsibility and authority for regulation of vehicular-source emissions resides with the State of California (CARB, et al.), neither the Applicant nor the Lead Agency can affect or mandate substantial reductions in vehicular-source GHG emissions, much less reductions that would achieve the SCAQMD's 3,000 $MTCO_2e$ per year threshold. In effect, all Project traffic (mobile and on-site equipment sources) and energy would need to be eliminated or be "zero GHG emissions sources" to achieve the SCAQMD's numeric threshold. There are no feasible means to or alternatives to eliminate all Project traffic or energy to ensure that Project traffic and energy would be zero GHG emissions sources. In terms of its practical application, this would constitute a "no build" condition.

On this basis, even with implementation of applicable Mitigation Measures the Project could generate direct or indirect GHG emissions that would result in a significant impact on the environment. ***This is a significant and unavoidable impact.***

The Project would have the potential to generate direct or indirect GHG emissions that would result in a significant impact on the environment.

3.7.2 GHG IMPACT 2

GHG-2: Does the Project have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs?

2022 SCOPING PLAN CONSISTENCY

As previously stated, pursuant to 15604.4 of the *CEQA Guidelines*, a lead agency may rely on qualitative analysis or performance-based standards to determine the significance of impacts from GHG emissions (47). As such, the Project's consistency with the 2022 Scoping Plan, is discussed below. It should be noted that the Project's consistency with the 2022 Scoping Plan also satisfies consistency with AB 32 since the 2022 Scoping Plan is based on the overall targets established by AB 32 and SB 32. Consistency with the 2008 and 2017 Scoping Plan is not necessary, since both of these plans have been superseded by the 2022 Scoping Plan. As previously noted, the 2022 Scoping Plan advocates for compliance with a local CAP to determine consistency.

Due to the volume of GHG emissions generated, the Project could impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The Project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan. Some of the current transportation sector policies the Project will comply with (through vehicle manufacturer compliance) include: Advanced Clean Cars II, Advanced Clean Trucks, Advanced Clean Fleets, Zero Emission Forklifts, the Off-Road Zero-Emission Targeted Manufacturer Rule, Clean Off-Road Fleet Recognition Program, In-Use Off-Road Diesel-Fueled Fleets Regulation, carbon pricing through the Cap-and-Trade Program, and the Low Carbon Fuel Standard. Notwithstanding, since the Project would result in an exceedance of the aforementioned numeric GHG significance thresholds, the Project has been determined to have the potential to conflict with an applicable GHG reduction plan.

CONSISTENCY WITH THE CITY'S CAP

The City of Perris adopted its CAP in February 2016. The measures identified in the CAP represent the City's actions to achieve the GHG reduction targets of AB 32 for target year 2020. Local measures incorporated in the CAP include:

- An energy measure that directs the City to create an energy action plan to reduce energy consumption citywide;
- Land use and transportation measures that encourage alternative modes of transportation (walking, biking, and transit), reduce motor vehicle use by allowing a reduction in parking supply, voluntary transportation demand management to reduce vehicle miles traveled, and land use strategies that improve jobs-housing balance (increased density and mixed-use); and
- Solid waste measures that reduce landfilled solid waste in the City.

Further, the Project is subject to California Building Code requirements. New buildings must meet the applicable building code requirements and standards in place at the time building permit documentation submittals are made. CALGreen is updated on a regular basis, with the most recently approved 2022 California Green Building Code Standards taking effect on January 1, 2030. As construction of the Project is anticipated to be completed in 20, it is presumed that the Project would be required to comply with the Title 24 standards in place at that time. While the Project does not include reduced parking, increased density, or a mixed-use development, it would provide sidewalks, bike racks, and pedestrian walkways to encourage the use of alternative modes of transportation (walking, biking, and transit). As such, the Project would not conflict with applicable GHG reduction measures in the CAP and a less than significant impact is expected to occur.

CONSISTENCY WITH THE CITY OF PERRIS GOOD NEIGHBOR GUIDELINES

The City of Perris Guidelines apply to all new warehouse, logistics, and distribution facilities ("industrial uses"). In addition, the Perris GNG acts as a supplement to the City's Zoning Code and Specific Plans. Project level review under CEQA would continue to apply to any project, regardless of the total square footage. The approving authority has the discretion and authority to approve projects that deviate from the guidance provided in this policy, provided adequate justifications are provided by the Applicant. The City of Perris Guidelines includes the following goals:

1. Ensure air quality and health risks, and noise impacts are evaluated;
2. Protect public health, safety, and welfare by regulating the design, location, and operation of warehouse/distribution facilities; and
3. Protect sensitive receptors, including neighborhood character of residential communities in the City of Perris.

The proposed goals and policies in the Perris GNG aim at balancing economic growth, industrial development, and business success while implementing methods for the reduction of potential negative impacts on sensitive receptors. There are five areas that would benefit from the goals and policies in the Perris GNG: Neighborhood Character; Reduction of Engine Emissions; Elimination of Trucks in Residential Areas; Buffers between Warehouses and Sensitive Receptors; and Educational Training, Public Outreach, and Community Engagement.

MEASURES APPLICABLE TO THE PROJECT

- The developer shall plant one 24-inch box tree per 2,500 square feet of building size including irrigation lines and controllers at an off-site location to be determined by the City (i.e., City right-of-way, parks, etc.) or provide funding equivalent to such cost at the discretion of the City, prior to issuance of the building permit.
- Minimize the air quality impacts of trucks on sensitive receptors by:
  - Restricting diesel engine and construction equipment idling to 5 minutes or less (SCAQMD Rule 2485). A driver of a vehicle shall turn off the engine upon stopping at a destination.
  - Designing facilities with adequate on-site queuing for trucks and away from sensitive receptors and preventing queuing of trucks on surrounding public streets.
  - Providing ingress and egress for trucks away from sensitive receptors.
  - On site equipment, such as forklifts, shall be electric with the necessary electrical charging stations provided or be powered by alternative technology.
  - Passenger vehicles parking should be separated from enclosed truck parking/truck court, and have separate primary access.
  - At least 10% of all passenger vehicle parking spaces shall be electric vehicle (EV) ready.[13]. At least 5% of all passenger vehicle parking spaces shall be equipped with working Level 2 Quick charge EV charging stations installed and operational, prior to issuance of a certificate of occupancy. Signage shall be installed indicating EV charging stations and that spaces are reserved for clean air/EV vehicles.
  - Encouraging replacement of diesel fleets with new model vehicles.
  - Preventing the queuing of trucks on streets or elsewhere outside the warehouse facility or near sensitive receptor.
  - Promoting the installation of on-site electric hook-ups to eliminate idling of main and auxiliary engines during loading and unloading of cargo and when trucks are not in use – especially where transport refrigeration units (TRUs) are proposed to be used.
- Warehouses greater than 100,000 square feet are required to directly reduce nitrogen and diesel particulate matter emissions (SCAQMD Rule 2305).
- On site motorized operational equipment shall be ZE (Zero Emissions).
- Facility operators shall coordinate with CARB and SCAQMD to obtain the latest information about regional air quality concentrations, health risks, and trucking regulations.
- Post signs requiring to turn off truck engines when not in use.
- Percentage of landscaping for projects in the General Industrial (GI) and Light Industrial Zones shall be increased from 10 and 14 to 15 percent.
- Sites shall be densely screened with landscaping along all bordering streets and adjacent/across the street from sensitive receptors. Trees along the landscape setbacks shall be at least 48 inch box in size and range in height between 14 and 25 feet be Trees should be planted a distance of 20 feet on center. Fifty percent of the landscape screening shall include a minimum of 36-inch box, evergreen trees. Palm trees shall not be utilized.

[13] Per the Title 24 Standards, EV Ready is a vehicle space which is provided with a branch circuit and any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger

- Require on-site signage for directional guidance to trucks entering and exiting the facility to minimize potential impacts on sensitive receptors.
- Provide adequate notification to all owners of real property on the latest records of the County Assessor within 500 feet of the real property. or at least 25 property owners, whichever is greater, for all required public notices pertaining to a warehouse project's entitlement.
- Facility operators shall train their managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
- Facility operators shall require their drivers to park and perform any maintenance of trucks in designated on site areas and not within the surrounding community or on public streets.
- Facility operators for sites that exceed 250 employees shall establish a rideshare program, in accordance with SCAQMD Rule 2202, with the intent of discouraging single-occupancy vehicle trips and promote alternate modes of transportation, such as carpooling and transit where feasible.
- Provide informational flyers and pamphlets for truck drivers about the health effects of diesel particulates and importance of being a good neighbor.
- Encourage facility owners/management to have site visits with neighbors and the community to view measures taken to reduce/and or eliminate diesel particulate emissions.
- Encourage facility owners/management to coordinate an outreach program that will educate the public.
- Provide facility owners/management with information from CARB and SCAQMD and encourage the utilization of resources provided by those agencies.
- Applicant shall engage in a community outreach effort to determine issues of concern during the project entitlement process.
- Applicant may be required to provide a supplemental funding contribution to further offset potential air quality impacts to the community and provide a community benefit beyond any CEQA related mitigation measures.
- In addition to regular construction inspections conducted by City Departments, the applicant shall provide monthly reports to the City demonstrating compliance with all the construction related policies.
- All diesel fueled off-road construction equipment greater than 50 horsepower shall be equipped with CARB Tier 4 Compliant engines. If Tier 4 equipment is not available within 50 miles of the project site, Tier 3 or cleaner off road construction equipment may be utilized.
- Construction equipment maintenance records and data sheets, as well as any other records necessary to verify compliance with CARB standards shall be kept on site and furnished to the City of Perris upon request.
- Use of the most readily available technology (CARB Tier 3, Tier 4 Interim, and Tier 4 Compliant equipment).
- Designate an area of the construction site where electric-powered construction vehicles and equipment can charge if the utility provider can feasibly provide temporary power for this purpose.
- All building roofs shall be solar-ready.

LEVEL OF SIGNIFICANCE

Significant and Unavoidable. The Project would conflict with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHG emissions and generation of GHG emissions due to the volume of GHG emissions that would be generated by the Project. As such, impacts were determined to be significant and unavoidable.

The Project would have the potential to conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

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5 CERTIFICATIONS

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed Harvest Landing Specific Plan Project. The information contained in this GHG 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
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APPENDIX 3.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

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

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.

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 3.2:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO A (WITH OVERLAY)

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

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.

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 3.3:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO A (WITHOUT OVERLAY)

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

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.

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 3.4:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO B (WITH OVERLAY)

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

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.

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 3.5:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS – SCENARIO B (WITHOUT OVERLAY)

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

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.

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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