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Selma Mixed-use Project

Report Date: January 17, 2024 (Revised March 29, 2024)

Subject: Air Quality, Health Risk, Greenhouse Gas, and Energy Technical Memorandum

This Air Quality, Health Risk, Greenhouse Gas, and Energy Technical Memorandum was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or greenhouse gas (GHG) emissions generated from construction and/or operation of the Selma Mixed-use Project (proposed project or project) would cause significant impacts to air quality, GHG, or energy resources. The methodology follows the Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the quantification of emissions and evaluation of potential impacts to air resources.[1] The GHG Analysis follows and the SJVAPCD's Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under the California Environmental Quality Act (CEQA).[2]

Project Location and Description

The Selma Mixed-use Project is a mixed-use residential and commercial development project planned for a site with a net area of 39.05 acres. The project site is located in the northwestern area of Selma, west of Highland Avenue, between Stillman Street to the south and Floral Avenue to the north.

The project includes the following land uses:

- 3.57 acres for public park areas;
- 5.41 acres for 120 Senior Living residential units;
- 7.00 acres for 180 affordable multi-family residential units;
- 11.16 acres for 300 market-rate multi-family residential units;
- 5.64 acres for commercial uses; including retail, fast-food (with drive-throughs) and hospitality
    - The project-specific traffic report[3] represented these commercial uses as: 7,200 square feet of strip retail plaza, 10,099 square feet of fast-food with drive-throughs, 7,200 square feet of fast casual restaurant, 1-tunnel automated car wash, quick lubrication vehicle, and a 100-room hotel;
- 6.27 acres for public and private streets.

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[1] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed May 24, 2023.

[2] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. December 17. Website: https://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf. Accessed May 24, 2023.

[3] JLB Traffic Engineering, Inc. 2023.Traffic Impact Analysis Report: Casitas Selmn Located on the Southwest Quadrant of Highland Avenue and Floral Avenue in the City of Selma, California. October 10.

In addition, the project includes off-site pipeline improvements totaling 11,089 linear feet. Design features to be incorporated into the project include:

- Walls and Fences
- Street and Park Furniture
- Street Signs
- Monuments and Signage
- Street lighting and Utilities
- Pedestrian Walks and Bike Paths
- Parks and Open Space
- Landscaping

An aerial view of the project site is shown in Figure 1. The project site plan, as well as a map depicting the off-site pipeline improvements, as included as part of Attachment A.

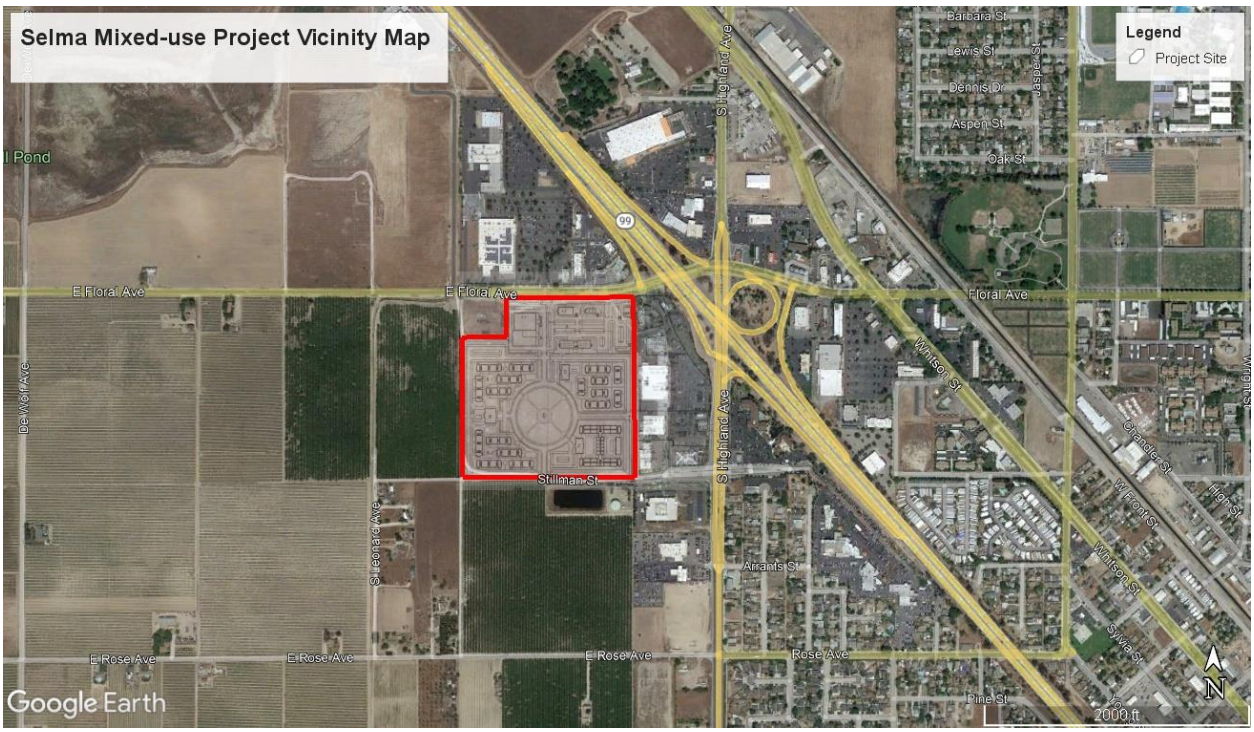

Figure 1 – Selma Mixed-use Project Site—Aerial Vicinity

Summary of Analysis Results

The following is a summary of the analysis results. As shown below, the proposed project would result in less than impacts to air quality, GHG, and energy resources. Mitigation is required during the operational period to reduce Impact AIR-A and Impact AIR-B.

Impact AIR-A: The proposed project would not conflict with or obstruct implementation of the applicable air quality plan. **Less than significant impact with incorporation of mitigation.**

Impact AIR-B: The proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)? **Less than significant impact with incorporation of mitigation.**

Impact AIR-C: The proposed project would not expose sensitive receptors to substantial pollutant concentrations. **Less than significant impact.**

Impact AIR-D: The proposed project would not create objectionable odors affecting a substantial number of people. **Less than significant impact.**

Impact GHG-A: The proposed project would not generate direct or indirect greenhouse gas emissions that would result in a significant impact on the environment. **Less than significant impact.**

Impact GHG-B: The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. **Less than significant impact**.

Impact Energy-A: The proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. **Less than significant impact.**

Impact Energy-B: The proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. **Less than significant impact**.

Modeling Parameters and Assumptions

The following modeling parameters and assumptions were used to generate criteria air pollutant, GHG, and TAC emissions for the proposed project.

Air Pollutants and GHGs Assessed

Criteria Pollutants Assessed

The following criteria air pollutants were assessed in this analysis: reactive organic gases (ROG),[4] oxides of nitrogen (NO_X), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter less than 10 microns in diameter (PM_{10}), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$). Note that the proposed project would emit ozone precursors ROG and NO_X. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

General descriptions and most relevant effects from pollutant exposure of the criteria pollutants of concern are listed below.

Table 1: Descriptions of Criteria Pollutants of Concern

Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
Ozone	Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere, but is formed by a complex series of chemical reactions between volatile organic compounds (VOC), nitrous oxides (NO_X), and sunlight. Ozone is a regional pollutant that is generated over a large area and is transported and spread by the wind.	Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NO_X) are mobile sources (on-road and off-road vehicle exhaust).	Irritate respiratory system; reduce lung function; breathing pattern changes; reduction of breathing capacity; inflame and damage cells that line the lungs; make lungs more susceptible to infection; aggravate asthma; aggravate other chronic lung diseases; cause permanent lung damage; some immunological changes; increased mortality risk; vegetation and property damage.
Particulate matter (PM_{10}) Particulate matter ($PM_{2.5}$)	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM_{10} refers to particulate matter that is between 2.5 and 10 microns in diameter, (one micron is one-millionth of a meter). $PM_{2.5}$ refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair.	Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation related sources are from vehicle exhaust and	• Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravate existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. • Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death.

[4] Note: Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. VOC = volatile organic compounds

Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
		road dust. Secondary particles form from reactions in the atmosphere.	
Nitrogen dioxide (NO_2)	During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO_X (NO, NO_2, NO_3, N_2O, N_2O_3, N_2O_4, and N_2O_5). NO_X is a precursor to ozone, PM_{10}, and $PM_{2.5}$ formation. NO_X can react with compounds to form nitric acid and related small particles and result in particulate matter (PM) related health effects.	NO_X is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. Nitrogen dioxide forms quickly from NO_X emissions. NO_2 concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations.	Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contributions to atmospheric discoloration; increased visits to hospital for respiratory illnesses.
Carbon monoxide (CO)	CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood.	CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood burning, and natural sources.	Ranges depending on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death.
Sulfur dioxide (SO_2)	Sulfur dioxide is a colorless, pungent gas. At levels greater than 0.5 parts per million (ppm), the gas has a strong odor, similar to rotten eggs. Sulfur oxides (SO_X) include sulfur dioxide and sulfur trioxide. Sulfuric acid is formed from sulfur dioxide, which can lead to acid deposition and can harm natural resources and materials. Although sulfur dioxide concentrations have been reduced to levels well below state and federal standards, further reductions are desirable because sulfur dioxide is a precursor to sulfate and PM_{10}.	Human caused sources include fossil-fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of sulfur dioxide. The gas can also be produced in the air by dimethyl sulfide and hydrogen sulfide. Sulfur dioxide is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The sulfur dioxide levels in the State are well below the maximum standards.	Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient sulfur dioxide levels. It is not clear whether the two pollutants act synergistically or one pollutant alone is the predominant factor.
Source: U.S. Environmental Protection Agency (EPA). Criteria Air Pollutants. Website: https://www.epa.gov/criteria-air-pollutants. Accessed May 24, 2023.			

GHGs Assessed

This analysis was restricted to GHGs identified by AB 32, which include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). The proposed project would generate a variety of GHGs, including several defined by AB 32 such as CO_2, CH_4, and N_2O.

Water vapor could be emitted from evaporated water used for landscaping and other uses, but this is not a significant impact because water vapor concentrations in the upper atmosphere are primarily due to climate feedbacks rather than emissions from project-related activities.

Ozone is a GHG; however, unlike the other GHGs, ozone in the troposphere is relatively short-lived and can be reduced in the troposphere on a daily basis. Stratospheric ozone can be reduced through reactions with other pollutants.

Certain GHGs defined by AB 32 would not be emitted by the project. Perfluorocarbons and sulfur hexafluoride are typically used in industrial applications, none of which would be used by the project. Therefore, it is not anticipated that the project would emit perfluorocarbons or sulfur hexafluoride.

GHG emissions associated with the proposed project construction as well as future operations were estimated using CO_2 equivalent (CO_2e) emissions as a proxy for all GHG emissions. In order to obtain the CO_2e, an individual GHG is multiplied by its Global Warming Potential (GWP). The GWP designates on a pound for pound basis the potency of the specific GHG compared to CO_2.

Toxic Air Contaminants Assessed

Toxic Air Contaminants

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations.

The California Almanac of Emissions and Air Quality—2009 Edition presents the relevant concentration and cancer risk data for the ten TACs that pose the most substantial health risk in California based on available data.[5] The ten TACs are acetaldehyde, benzene, 1.3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk.[6] In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

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[5] California Air Resources Board (CARB). 2009. The California Almanac of Emissions and Air Quality—2009 Edition. Website: https://www.arb.ca.gov/aqd/almanac/almanac09/almanac2009 all.pdf.

[6] California Air Resources Board (CARB). 1998. The Toxic Air Contaminant Identification Process: Toxic Air Contaminant Emissions from Diesel-fueled Engines. Website: www.arb.ca.gov/toxics/dieseltac/factsht1.pdf.

DPM

For purposes of this study, DPM exhaust emissions are represented as exhaust PM_{10}. During project operations, the project would generate passenger vehicle and truck trips from employees, visitors, deliveries, patrons/customers, and residential and service vehicles traveling to and from the project site. The main source of DPM from the long-term operations of the proposed project would be from combustion of diesel fuel in diesel-powered engines in on-road trucks. On-site motor vehicle emissions refer to DPM exhaust emissions from the motor vehicle traffic that would travel and idle within the project site each day.

Asbestos

Asbestos is the name given to a number of naturally occurring fibrous silicate minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite. Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings. Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States. Exposure to asbestos is a health threat; exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings that were constructed prior to the 1977 ban on asbestos for use in buildings. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present.

Model Selection

Air pollutant emissions can be estimated by using emission factors and a level of activity. Emission factors are the emission rate of a pollutant given the activity over time; for example, grams of NO_X per horsepower-hour. CARB has published emission factors for on-road mobile vehicles/trucks in the EMFAC mobile source emissions model and emission factors for off-road equipment and vehicles in the OFFROAD emissions model. An air emissions model (or calculator) combines the emission factors and the various levels of activity and outputs the emissions for the various pieces of equipment.
The project is located in the City of Selma, within Fresno County and within the San Joaquin Valley Air Basin. The modeling follows SJVAPCD guidance where applicable from its GAMAQI. The models used in this analysis are summarized as follows:

- Construction emissions: CalEEMod, version 2022.1
- Operational emissions: CalEEMod, version 2022.1
- Operational TAC emissions: EMission FACtor (EMFAC) 2021
- Dispersion Model: American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD), versions 22112 and 23132
- Health Risk Metric Calculations: Hot Spots Analysis & Reporting Program 2 (HARP2)

Criteria Pollutants and GHG Emissions

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and

water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California Air Districts to account for local requirements and conditions.

CalEEMod is a comprehensive tool for quantifying air quality impacts from land use projects located throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as preparing CEQA or National Environmental Policy Act documents, conducting pre-project planning, and, verifying compliance with local air quality rules and regulations, etc.

CalEEMod version CalEEMod 2022.1 was used to estimate construction and operational impacts of the proposed project. CalEEMod version 2022.1 was the most recent version of CalEEMod at the time emissions were estimated.

Assumptions

Construction Modeling Assumptions

Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and prevailing weather conditions. Construction emissions result from on-site and off-site activities. On-site emissions principally consist of exhaust emissions from the activity levels of heavy-duty construction equipment, motor vehicle operation, and fugitive dust (mainly PM_{10}) from disturbed soil. Additionally, paving operations and application of architectural coatings would release VOC emissions. Off-site emissions are caused by motor vehicle exhaust from delivery vehicles, worker traffic, and road dust (PM_{10} and $PM_{2.5}$).

Schedule

CalEEMod includes default equipment lists and construction schedules. Where project-specific information was unknown, CalEEMod default values were used.

Table 2 shows the conceptual construction schedule for the proposed project. The construction schedule utilized in the analysis represents a “worst-case” analysis scenario, since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. Therefore, construction emission estimates would decrease if the construction schedule moved to later years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required per CEQA guidelines. The site-specific construction fleet may vary due to specific project needs at the time of construction.

Table 2: Project Construction Schedule

Construction Activity	Start Date	End Date	Workdays
Project Construction			
Site Preparation	3/1/2024	4/11/2024	30
Grading	4/12/2024	7/25/2024	75
Building Construction	7/26/2024	5/27/2027	740
Paving	7/26/2024	10/10/2024	55
Architectural Coating	3/12/2027	5/27/2027	55
Off-site Pipeline Improvements			
Linear, Grubbing & Land Clearing	6/25/2024	7/4/2024	7
Linear, Grading & Excavation	7/5/2024	8/18/2024	32
Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	21
Linear, Paving	9/18/2024	10/3/2024	11

Note: The construction schedule utilized in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years.

Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Equipment

Construction equipment for each construction activity is shown in Table 3. Where the construction schedule was adjusted to match the applicant-provided schedule, construction equipment was increased to retain the CalEEMod-default construction HP-hours.

Table 3: Project Construction Equipment

Construction Activity	Equipment Type	Pieces of Equipment	Usage (hours/day)	Horsepower	Load Factor	Fuel Type
Project Construction						
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	Diesel
	Tractors/Loaders/Backhoes	4	8	84	0.37	Diesel
Grading	Excavators	2	8	36	0.38	Diesel
	Graders	1	8	148	0.41	Diesel
	Rubber Tired Dozers	1	8	367	0.40	Diesel
	Scrapers	2	8	423	0.48	Diesel
	Tractors/Loaders/Backhoes	2	8	84	0.37	Diesel
Building Construction	Cranes	1	7	367	0.29	Diesel
	Forklifts	3	8	82	0.20	Diesel
	Generator Sets	1	8	14	0.74	Diesel
	Tractors/Loaders/Backhoes	3	7	84	0.37	Diesel

Construction Activity	Equipment Type	Pieces of Equipment	Usage (hours/day)	Horsepower	Load Factor	Fuel Type
	Welders	1	8	46	0.45	Diesel
Paving	Pavers	2	8	81	0.42	Diesel
	Paving Equipment	2	8	89	0.36	Diesel
	Rollers	2	8	36	0.38	Diesel
Architectural Coating	Air Compressors	1	6	37	0.48	Diesel
Off-site Pipeline Improvements						
Linear, Grubbing & Land Clearing	Crawler Tractors	1	8	87	0.43	Diesel
	Excavators	1	8	36	0.38	Diesel
	Signal Boards	2	8	6	0.82	Electric
Linear, Grading & Excavation	Crawler Tractors	1	8	87	0.43	Diesel
	Excavators	1	8	36	0.38	Diesel
	Rubber Tired Loaders	1	8	150	0.36	Diesel
	Signal Boards	2	8	6	0.82	Electric
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8	37	0.48	Diesel
	Generator Sets	1	8	14	0.74	Diesel
	Plate Compactors	1	8	8	0.43	Diesel
	Pumps	1	8	11	0.74	Diesel
	Signal Boards	2	8	6	0.82	Electric
	Trenchers	1	8	40	0.5	Diesel
Linear, Paving	Pavers	1	8	81	0.42	Diesel
	Paving Equipment	1	8	89	0.36	Diesel
	Rollers	1	8	36	0.38	Diesel
	Signal Boards	2	8	6	0.82	Electric
	Tractors/Loaders/Backhoes	1	8	84	0.37	Diesel
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).						

Vehicles Trips

Table 4 provides a summary of the construction-related vehicle trips. CalEEMod default values were used to estimate the number of construction-related vehicle trips. Additional haul trips were added to each construction activity to account for the mobilization of off-road equipment.

The default values for hauling trips are based on the assumption that a truck can haul 20 tons (or 16 cubic yards) of material per load. If one load of material is delivered, CalEEMod assumes that one haul truck importing material will also have a return trip with an empty truck (e.g., 2 one-way trips).

The fleet mix for worker trips is light-duty passenger vehicles to light-duty trucks. The vendor trips fleet mix is composed of a mixture of medium and heavy-duty diesel trucks. The hauling trips were assumed to be 100 percent heavy-duty diesel truck trips. CalEEMod default trip lengths for a project in Fresno County were used for the construction trips.

Table 4: Construction Vehicle Trips

Construction Task	Worker Trips per Day	Vendor Trips per Day	Haul Trips per Day
Project Construction			
Site Preparation	17.50	2.00	0.00
Grading	20.00	2.00	41.60
Building Construction	508.94	95.05	0.00
Paving	15.00	2.00	0.00
Architectural Coating	101.79	2.00	0.00
Off-site Pipeline Improvements			
Linear, Grubbing & Land Clearing	4.00	2.00	35.71
Linear, Grading & Excavation	4.00	2.00	0.00
Linear, Drainage, Utilities, & Sub-Grade	4.00	8.00	0.00
Linear, Paving	4.00	2.00	0.00

Notes:

Additional vendor trips were added to the site preparation, grading, paving, and architectural coating phases of the project construction run and all off-site improvement phases to account for delivery of materials.

Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Operational Modeling Assumptions

Operational emissions are those emissions that would occur during long-term operations of the proposed project.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the automobiles that would travel to and from the proposed project site. Project-specific trip rates were used in the analysis. Consistent with the project-specific traffic analysis,[7] the trip generation rates for the proposed project were obtained from the 11th Edition of the Trip Generation Manual published by the ITE (see Attachment A). Table 5 presents trip generation characteristics for projected trips for the project.

Table 5: Project Trip Generation Calculations used to Estimate Project Emissions

Land Use (ITE Code)	Weekday Trips (trips per day)	Saturday Trips (trips per day)	Sunday Trips (trips per day)
Strip Retail Plaza (<40k) (822)	392.04	392.04	392.04
Fast-Food Restaurant with Drive- Through Window (934)	4,721.08	6,222.20	4,772.59
Hotel (310)	799.00	807.00	594.00
Fast Casual Restaurant (930)	699.41	699.41	699.41

[7] JLB Traffic Engineering, Inc. 2023.Traffic Impact Analysis Report: Casitas Selmn Located on the Southwest Quadrant of Highland Avenue and Floral Avenue in the City of Selma, California. October 10.

Quick Lubrication Vehicle Shop (941) + Automated Car Wash (948)	895.00	901.00	859.00
Multifamily Housing (Low Rise) Not Close to Transit (220)	2,022.00	1,365.00	1,158.00
Senior Adult Housing - Multifamily (252)	388.80	328.80	324.00
Affordable Housing - Income Limits (223)	865.80	2,160.00	1,699.20
Public Park (411)	2.78	7.00	7.82
Total Project Trips	**10,786**	**12,882**	**10,506**
Notes: ITE = Institute of Transportation Engineers Source: Attachment A.			

Vehicle Fleet Mix

Trip lengths are for primary trips. Trip purposes are primary, diverted, and pass-by trips. Diverted trips take a slightly different path than a primary trip. The CalEEMod default rates for percentages of primary, diverted, and pass-by trips were used for the passenger vehicle run.

The vehicle fleet mix is defined as the mix of motor vehicle classes active during the operation of the proposed project. Emission factors are assigned to the expected vehicle mix as a function of vehicle class, speed, and fuel use (gasoline- and diesel-powered vehicles).

The vehicle types in the operational runs were adjusted for the strip mall, fast food, fast casual restaurant, automobile care center, and residential components of the project, while the remaining land uses used the default fleet mix for Fresno County. The adjusted non-residential fleet mixes were based on the default values for Fresno County; however, the overall number of truck trips were adjusted to match the ITE trip generation rates for the relevant land use.

Area Sources

Consumer Products

Consumer products are various solvents used in non-industrial applications, which emit VOCs during their product use. “Consumer Product” means a chemically formulated product used by household and institutional consumers, including but not limited to: detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. It does not include other paint products, furniture coatings, or architectural coatings. CalEEMod includes default consumer product use rates. The default emission factors developed for CalEEMod were used for consumer products.

Architectural Coatings (Painting)

Paints release VOC emissions during application and drying. The buildings in the project would be repainted on occasion. The project is required to comply with the SJVAPCD Rule 4601—Architectural Coatings. The rule required flat paints to meet a standard of 50 grams per liter (g/l) and gloss paints 100 g/l by 2012 for an average rate of 65 g/l. Effective January 1, 2022, nonflat gloss and semigloss paints

are also required to meet the 50 g/l standard, providing lower VOC emissions for buildings constructed after that date. Therefore, the analysis uses the 50 g/l emission factor for the analysis.

Landscaping Emissions

CalEEMod estimates days for which landscaping equipment would be used to estimate potential emissions for the proposed project.

Indirect Emissions

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the proposed project site; however, emissions associated with producing that electricity are generated off-site at a power plant. Since the electricity can vary greatly based on locations, the user should override these values if they have more specific information regarding their specific water supply and treatment.

Energy Use

Electricity used by the project (for lighting, etc.) would result in emissions from the power plants that would generate electricity distributed on the electrical power grid. Electricity emissions estimates are only used in the GHG analysis.

The project would generate emissions from the combustion of natural gas for water heaters, heat, etc. CalEEMod has two categories for natural gas consumption: Title 24 and non-Title 24.

The emissions associated with the building electricity and natural gas usage (non-hearth) were estimated based on the land use type and size. Values for a project served by Pacific Gas and Electric (PG&E) were used in the analysis.

The Renewable Electricity Standards took effect in 2020. The Renewable Electricity Standard requires that electricity providers include a minimum of 33 percent renewable energy in their portfolios by the year 2020. PG&E provides estimates of its emission factor per megawatt hour of electricity delivered to its customers. The utilities in California will be required to increase the use of renewable energy sources to 60 percent by 2030.

Other Indirect Emissions (Water Use, Wastewater Use, and Solid Waste)

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the project. For solid waste disposal, GHG emissions are associated with the disposal of solid waste generated by the proposed project into landfills. CalEEMod default data were used for inputs associated with solid waste.

Offroad Equipment

Stationary Sources

No stationary sources are included as part of the proposed project; however, any stationary sources would require permits from the SJVAPCD prior to their installation or operation. Any future equipment that would be considered a stationary source would need to meet SJVAPCD emission limits for regulated pollutants pursuant to Rule 2201. The equipment will also be required to meet SJVAPCD's BPS for GHG emissions.

Vegetation

There is currently limited carbon sequestration occurring on-site in the form of existing grassland. The proposed project would meet any requirements set forth by the City of Selma in regard to landscaping/open space that may result in the inclusion of vegetation. For this analysis, it was assumed that the loss and addition of carbon sequestration that are due to the proposed project would be balanced; therefore, emissions due to carbon sequestration were not included.

Refrigerants

Buildings requiring cold storage are not included as part of the proposed project. CalEEMod default values were applied to the commercial and residential land uses associated with the mixed-use project.

Health Risk Assessment Assumptions

A Health Risk Assessment (HRA) was completed to evaluate potential health risks associated with the generation of TACs during construction and operational activities associated with the proposed project. Assumptions used in the HRA are summarized below, while complete calculations parameters are provided as part of Attachment B.

Model Selection and Parameters

An air dispersion model is a mathematical formulation used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the United States Environmental Protection Agency (EPA) AERMOD (versions 22112 and 23132) air dispersion model. Specifically, AERMOD was used to estimate levels of air emissions at existing sensitive receptor locations from potential sources of project-generated TACs. The use of AERMOD provides a refined methodology for estimating construction impacts by utilizing long-term, measured representative meteorological data for the project site and a representative operational schedule.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. Direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. Elevation data for the area were obtained and included in the model runs to account for complex terrain. The air dispersion model assessment used meteorological data from the Fresno Station (Station #93193). The meteorological data used was preprocessed for use with AERMOD by the SJVAPCD and included data for the years 2010 to 2014; all years were used in the assessment. All receptors were placed within the breathing zone at 1.2 meters above ground level.

Detailed parameters and complete calculations are contained in Attachment B. Attachment B also includes a representation of the operational DPM modeling parameters, including modeled on-site vehicle travel and locations of sensitive receptors within approximately ¼-mile (1,320 feet) of the project boundary. Additional sensitive receptors were added along the off-site improvement area that went beyond ¼-mile of the project site.

Air Toxics Generated during Operations—DPM

The project would generate automobile trips from residents, visitors, patrons, vendors, and employees traveling to and from the project site. The majority of trips are expected to be generated by passenger vehicles; however, the project would also be served by heavy-duty trucks. The main source of DPM from the long-term operations of the proposed project would be from combustion of diesel fuel in diesel-

powered engines in on-road trucks. On-site motor vehicle emissions refer to DPM exhaust emissions from the motor vehicle traffic that would travel and idle within the project site each day.

Emission factors are assigned to the expected vehicle mix as a function of vehicle age, vehicle class, speed, and fuel type. The operational fleet mix and daily diesel truck trips used to assess emissions from the proposed project are summarized below; the full calculations are included as part of Attachments A and B.

Each operational emission source to be evaluated requires geometrical and emission release specifications for use in the air dispersion model. The emission source configurations applied in this assessment of operational DPM emissions are shown in Table 6.

Table 6: Summary of Select Operational Emission Source Configurations

Emission Source Type	Relevant Assumptions
On-site Truck Traffic and On-site Truck Idling	● Configuration: Four (4) line volume sources ● Release height: 10.2 feet (3.1 meters) ● Vehicle Speed for On-site Travel: 5 mph ● Vehicle types: light-heavy duty 1 (LHD1), light-heavy duty 2 (LHD2), medium-heavy duty, and heavy-heavy duty (HHD) trucks ● Emission factors: EMFAC2021 ● Daily Heavy Trucks per day: 557 average daily trips ● Daily Diesel Truck Trips per day: 383.9 average daily trips ● Number of diesel truck idling instances per day: 383.9 (based on one occurrence of idling per truck trip and idling emissions calculated for diesel truck trucks only)
Off-site Truck Traffic	● Configuration: Five (5) line volume sources ● The travel routes were used to represent off-site emissions in the immediate project vicinity (truck travel paths within approximately 1,000 feet of the project boundary until the freeway is reached) ● Vehicle speeds: aggregated emission factors for 5 MPH to 25 MPH speed bins ● Vehicle type: light-heavy duty 1 (LHD1), light-heavy duty 2 (LHD2), medium-heavy duty, and heavy-heavy duty (HHD) trucks ● Emission factors: EMFAC2021
Facility Operations	● 365 days per year, 24 hours per day
Source: Attachment B.	

Operational emissions for the proposed project were assessed assuming the first year of operations would occur in 2024. Exhaust emissions of DPM (as PM_{10} exhaust) were estimated using EMFAC2021. It was assumed that emission factors were constant for the years beyond 2024, which provides a conservative estimate of DPM emissions and associated health risks. DPM emissions are expected to decline as older, higher polluting vehicles continue to be replaced by newer cleaner vehicles. This decline is not fully accounted for in the HRA completed for the proposed project. The emission factors, AERMOD

data, and emission estimation spreadsheets used to estimate motor vehicle DPM emissions during project operations are provided in Attachment B.

Cancer Risk

The model was run to obtain annual average concentration in micrograms per cubic meter [µg/m³] at sensitive receptor locations. Receptor were placed at sensitive receptors locations with ¼-mile (1,32 feet) of the project site and in the closest receptor locations in each direction from the project site. Consistent with SJVAPCD guidance, a health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 70-year exposure scenario. Cancer risk and non-cancer hazard calculations were completed using HARP2. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA Human Health Evaluation Manual (1991) and OEHHA's 2015 Guidance Manual.[8,9]

Based on the OEHHA methodology, the residential inhalation cancer risk from the annual average DPM concentrations is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor (ASF), the frequency of time spent at home (for residents only), and the exposure duration divided by averaging time, to yield the excess cancer risk. These factors are discussed in more detail below. Cancer risk must be separately calculated for specified age groups, because of age differences in sensitivity to carcinogens and age differences in intake rates (per kg body weight). Separate risk estimates for these age groups provide a health-protective estimate of cancer risk by accounting for greater susceptibility in early life, including both age-related sensitivity and amount of exposure.

Exposure through inhalation (Dose-air) is a function of the breathing rate, the exposure frequency, and the concentration of a substance in the air. For residential exposure, the breathing rates are determined for specific age groups, so Dose-air is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = (C_{air} * \{BR/BW\} * A * EF * 10^{-6})$$

Where:

Dose-air	=	dose through inhalation (mg/kg/day)
Cair	=	air concentration (µg/m³) from air dispersion model
{BR/BW}	=	daily breathing rate normalized to body weight (L/kg body weight – day) (361 L\kg BW-day for 3rd Trimester, 1,090 L/kg BW-day for 0<2 years, 861 L/kg BW-day for 2<9 years, 745 L/kg BW-day for 2<16 years, 335 L/kg BW-day for 16<30 years, and 290 L/kg BW-day 30<70 years)
A	=	Inhalation absorption factor (unitless [1])
EF	=	exposure frequency (unitless), days/365 days (0.96 [approximately 350 days per year])

[8] U.S. Environmental Protection Agency (EPA). 1991. Human Health Evaluation Manual. Website: https://www.epa.gov/sites/default/files/2015-11/documents/defaultExposureParams.pdf. Accessed May 24, 2023.

[9] California Office of Environmental Health Hazards Assessment (OEHHA). 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. Guidance Manual for Preparation of Health Risk Assessments. February. Website: http://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed May 24, 2023.

10^{-6}	=	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to take into account the increased sensitivity to carcinogens during early-in-life exposure. In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years, an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood and an ASF of 1 for ages 16 through 70 years.

Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. The following FAH values were used in this assessment:

- From the third trimester to age <2 years: 100 percent (the OEHHA-recommended value is 85 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis and to be consistent with SJVAPCD guidance);
- From age 2 through <16 years: 100 percent (the OEHHA-recommended value is 72 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis and to be consistent with SJVAPCD guidance); and
- From age 16 years and greater: 73 percent (the OEHHA-recommended value is 73 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis and to be consistent with SJVAPCD guidance).

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$Risk_{inh\text{-}res} = (Dose_{air} * CPH * ASF * ED/AT * FAH)$

Where:

$Risk_{inh\text{-}res}$	=	residential inhalation cancer risk (potential chances per million)
$Dose_{air}$	=	daily dose through inhalation (mg/kg-day)
CPF	=	inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)
ASF	=	age sensitivity factor for a specified age group (unitless)
ED	=	exposure duration (in years) for a specified age group
AT	=	averaging time of lifetime cancer risk (years)
FAH	=	fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard

Non-cancer chronic impacts are calculated by dividing the annual average concentration by the Reference Exposure Level (REL) for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

$Hazard\ Quotient = C_i/REL_i$

Where:

C_i = Concentration in the air of substance i (annual average concentration in µg/m^3)

REL_i = Chronic noncancer Reference Exposure Level for substance i (µg/m^3)

The non-cancer chronic hazard index was calculated in HARP2. The primary source of the emissions responsible for chronic risk are from diesel trucks. DPM does not have an acute risk factor; however, HARP2 was run to obtain the following for each modeled receptor: cancer risk, chronic hazard index, and acuate hazard index.

Thresholds

Air pollutant emissions have regional effects and localized effects. This analysis assesses the regional effects of the project's criteria pollutant emissions in comparison to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the project. Localized emissions from project construction and operation are also assessed using concentration-based thresholds that determine if the project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The primary pollutants of concern during project construction and operation are ROG, NO_X, PM_{10}, and $PM_{2.5}$. The SJVAPCD GAMAQI adopted in 2015 contains thresholds for ROG and NO_X; SO_X, CO, PM_{10}, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles away from the source of emissions through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_X are termed ozone precursors. The San Joaquin Valley Air Basin (SJVAB) often exceeds the state and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The SJVAB also exceeds air quality standards for PM_{10}, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants.

The SJVAPCD adopted significance thresholds for regional construction-related and operational ROG, NO_X, PM, CO, and SO_X, these thresholds are included in Table 7.

Table 7: SJVAPCD Proposed Project-Level Air Quality CEQA Thresholds of Significance

Pollutant	Significance Threshold	
	Construction Emissions (tons/year)	Operational Emission (tons/year)
CO	100	100
NO_X	10	10
ROG	10	10
SO_X	27	27
PM_{10}	15	15
$PM_{2.5}$	15	15

Source: SJVAPCD. 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed May 24, 2023 and January 16, 2024.

Table 8: Health Risk Assessment Thresholds

Health Risk Metric	Applicable Threshold of Significance
Maximum Cancer Risk (Risk per Million)	20
Chronic Non-Cancer Hazard Index	1
Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed May 24, 2023 and January 16, 2024.	

Additional thresholds of significance are discussed, where applicable, in the appropriate impact analysis.

Fugitive Dust

Construction

Fugitive dust would be generated from site grading and other earth-moving activities. Most of this fugitive dust would remain localized and would be deposited near the project site. However, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce the emissions from the project site. Therefore, adherence to Regulation VIII would be required during construction of the proposed project. Regulation VIII would require fugitive dust control measures that are consistent with best management practices (BMPs) established by the SJVAPCD to reduce the proposed project's construction-generated fugitive dust impacts to a less than significant level.

The SJVAPCD (SJVAPCD or District) adopted Regulation VIII in 1993 and its most recent amendments became effective on October 1, 2004. This is a basic summary of the regulation's requirements as they apply to construction sites. These regulations affect all workers at a regulated construction site, including everyone from the landowner to the subcontractors. Violations of Regulation VIII are subject to enforcement action including fines.[10]

Visible Dust Emissions may not exceed 20 percent opacity during periods when soil is being disturbed by equipment or by wind at any time. Visible Dust Emissions opacity of 20 percent means dust that would obstruct an observer's view of an object by 20 percent. District inspectors are state certified to evaluate visible emissions. Dust control may be achieved by applying water before/during earthwork and onto unpaved traffic areas, phasing work to limit dust, and setting up wind fences to limit windblown dust.

Soil Stabilization is required at regulated construction sites after normal working hours and on weekends and holidays. This requirement also applies to inactive construction areas such as phased projects where disturbed land is left unattended. Applying water to form a visible crust on the soil and restricting vehicle access are often effective for short-term stabilization of disturbed surface areas. Long-term methods including applying dust suppressants and establishing vegetative cover.

[10] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2007. Compliance Assistance Bulletin. Website: http://www.valleyair.org/busind/comply/pm10/forms/RegVIIICAB.pdf. Accessed May 24, 2023.

Carryout and Trackout occur when materials from emptied or loaded vehicles falls onto a paved surface or shoulder of a public road or when materials adhere to vehicle tires and are deposited onto a paved surface or shoulder of a public road. Should either occur, the material must be cleaned up at least daily, and immediately if it extends more than 50 feet from the exit point onto a paved road. The appropriate clean-up methods require the complete removal and cleanup of mud and dirt from the paved surface and shoulder. Using a blower device or dry sweeping with any mechanical device other than a PM_{10}-efficient street sweeper is a violation. Larger construction sites, or sites with a high amount of traffic on one or more days, must prevent carryout and trackout from occurring by installing gravel pads, grizzlies, wheel washers, paved interior roads, or a combination thereof at each exit point from the site. In many cases, cleaning up trackout with water is also prohibited as it may lead to plugged storm drains. Prevention is the best method.

Unpaved Access and Haul Roads, as well as unpaved vehicle and equipment traffic areas at construction sites must have dust control. Speed limit signs limiting vehicle speed to 15 mph or less at construction sites must be posted every 500 feet on uncontrolled and unpaved roads.

Storage Piles and Bulk Materials have handling, storage, and transportation requirements that include applying water when handling materials, wetting or covering stored materials, and installing wind barriers to limit visible dust emissions. Also, limiting vehicle speeds, loading haul trucks with a freeboard of six inches or greater along with applying water to the top of the load, and covering the cargo compartments are effective measures for reducing visible dust emissions and carryout from vehicles transporting bulk materials.

Dust Control Plans identify the dust sources and describe the dust control measures that will be implemented before, during, and after any dust generating activity for the duration of the project. Owners or operators are required to submit plans to the SJVAPCD at least 30 days prior to commencing the work for the following:

- Residential developments of ten or more acres of disturbed surface area.
- Non-residential developments of five or more acres of disturbed surface area.
- The relocation of more than 2,500 cubic yards per day of materials on at least three days.

Operations may not commence until the SJAVPCD has approved the Dust Control Plan. A copy of the plan must be on site and available to workers and District employees. All work on the site is subject to the requirements of the approved dust control plan. A failure to abide by the plan by anyone on site may be subject to enforcement action. Owners or operators of construction projects that are at least one acre in size and where a Dust Control Plan is not required, must provide written notification to the SJVAPCD at least 48 hours in advance of any earthmoving activity.

Record Keeping is required to document compliance with the rules and must be kept for each day any dust control measure is used. The SJVAPCD has developed record forms for water application, street sweeping, and “permanent” controls such as applying long term dust palliatives, vegetation, ground cover materials, paving, or other durable materials. Records must be kept for one year after the end of dust generating activities (Title V sources must keep records for five years).

Exemptions exist for several activities. Those occurring above 3,000 feet in elevation are exempt from all Regulation VIII requirements. Further, Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities exempts the following construction and earthmoving activities:

- Blasting activities permitted by California Division of Industrial Safety.

- Maintenance or remodeling of existing buildings provided the addition is less than 50% of the size of the existing building or less than 10,000 square feet (due to asbestos concerns, contact the SJVAPCD at least two weeks ahead of time).
- Additions to single family dwellings.
- The disking of weeds and vegetation for fire prevention on sites smaller than ½ acre.
- Spreading of daily landfill cover to preserve public health and safety and to comply with California Integrated Waste Management Board requirements.

Nuisances are prohibited at all times because District Rule 4102 – Nuisance applies to all construction sources of fugitive dust, whether or not they are exempt from Regulation VIII. It is important to monitor dust-generating activities and implement appropriate dust control measures to limit the public's exposure to fugitive dust.

Addressing Air Quality CEQA Impact Questions

Table 9: Summary of Air Quality Impact Analysis

Air Quality *Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.*	
Would the project:	**Significance Finding**
a) Conflict with or obstruct implementation of the applicable air quality plan?	Less than Significant Impact with Incorporation of Mitigation
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?	Less than Significant Impact with Incorporation of Mitigation
c) Expose sensitive receptors to substantial pollutant concentrations?	Less than Significant Impact
d) Result in other emissions (such as those leading to odors or) adversely affecting a substantial number of people?	Less than Significant Impact

Air Quality Mitigation Measures

MM AIR-2a Outdoor Electrical Outlets

Prior to issuance of building permits, the project applicant shall prepare and submit building plans to the City of Selma that demonstrate that all new structures have outdoor electrical outlets that are accessible to maintenance workers and landscapers to allow the use of electric-powered equipment.

MM AIR-2b "Zero-VOC" Consumer Products

The use of zero-VOC shall be encouraged in prior to the issuance of the certificate of occupancy for each building associated with the proposed project, the project applicant shall provide the City of Selma with documentation listing the consumer products to be used during operation of the proposed project. The consumer products purchased by the building occupant(s) or by the cleaning business contracted by the building occupant(s) for on-site use and listed in the documentation provided to the City shall consist of water-based or "zero-[volatile organic compound [VOC]" consumer. "Consumer products," as referred to in this mitigation measure, shall include detergents, cleaning compounds, polishes, and floor finishes. "Consumer products," as referred to in this mitigation measure, shall not include parking lot degreasers, architectural coatings, pesticides, or fertilizers.

To monitor and ensure that the use of zero-VOC consumer products are being encouraged to be used on-site, the building operator(s) shall maintain records for the duration of project operation of all efforts to comply with this mitigation measure. These records shall be made available to the City of Selma upon request. Alternatively, the City may require periodic reporting and provision of written records by operators and conduct regular inspections of the records to the maximum extent feasible and practicable.

MM AIR-2c Use Low-VOC Volatile Organic Compound Architectural Coating

Tenants and building owners for the non-residential components of the project shall be encouraged to use low-volatile organic compound (VOC) Architectural Coatings with an average VOC content of 10 grams per liter (g/l) or less for repainting buildings during the operational period. The project applicant shall provide information on paints with low VOC content to all tenants and building owners within the first year of project occupancy.

MM AIR-2d Transportation Demand Management Program

Prior to issuance of the certificate of occupancy for the first non-residential building associated with the project, the applicant shall retain a qualified transportation consultant to prepare and submit a Transportation Demand Management (TDM) program to the City of Selma for review and approval. The TDM program shall identify measures to reduce daily gasoline-powered and diesel-powered vehicle trips to the project site, with an objective of a minimum 5 percent reduction in gasoline-fueled and diesel-fueled trips. The approved TDM program shall be implemented in conjunction with the start of operations of the project. Examples of trip reduction measures may include, but are not limited to, the following:

- Post transit information (maps, schedules, fares, etc.) in public areas of the project that is accessible to employees, patrons, and other project occupants;
- Provide employer-subsidized transit passes;
- Sponsor an employee ride sharing program;
- Provide employee lockers for personal items;
- In non-residential uses, provide employees with an employee only restroom with a shower;
- Provide secure indoor bicycle parking (racks or lockers) for employees and/or residents;
- Provide customer or visitor bicycle parking (racks) in safe and convenient locations;
- For non-residential components of the project, allow flex scheduling or compressed scheduling practices;
- Provide preferential parking spaces for clean air vehicles;
- Provide charging stations for electric vehicles; and
- If home delivery services are provided by any of the non-residential components of the project, the home delivery services shall be performed using low-emission or alternative-fueled (electric, natural gas, hydrogen, etc.) vehicles.

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant Impact with Incorporation of Mitigation.

Air Quality Plans (AQPs) are plans for reaching attainment of air quality standards. The assumptions, inputs, and control measures are analyzed to determine if the Air Basin can reach attainment for the ambient air quality standards. The proposed project site is located within the jurisdictional boundaries of the SJVAPCD. To show attainment of the standards, the SJVAPCD analyzes the growth projections in the Valley, contributing factors in air pollutant emissions and formations, and existing and adopted emissions controls. The SJVAPCD then formulates a control strategy to reach attainment that includes both State and SJVAPCD regulations and other local programs and measures. For projects that include stationary sources of emissions, the SJVAPCD relies on project compliance with Rule 2201—New and Modified Stationary Source Review to ensure that growth in stationary source emissions would not

interfere with the applicable AQP. Projects exceeding the offset thresholds included in the rule are required to purchase offsets in the form of Emission Reduction Credits (ERCs).

The CEQA Guidelines indicate that a significant impact would occur if the project would conflict with or obstruct implementation of the applicable air quality plan. The GAMAQI indicates that projects that do not exceed SJVAPCD regional criteria pollutant emissions quantitative thresholds would not conflict with or obstruct the applicable AQP. An additional criterion regarding the project's implementation of control measures was assessed to provide further evidence of the project's consistency with current AQPs. This document proposes the following criteria for determining project consistency with the current AQPs:

1. Will the project result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQPs? This measure is determined by comparison to the regional and localized thresholds identified by the District for Regional and Local Air Pollutants.
2. Will the project comply with applicable control measures in the AQPs?

The use of the criteria listed above is a standard approach for CEQA analysis of projects in the SJVAPCD's jurisdiction, as well as within other air districts, for the following reasons:

- Significant contribution to existing or new exceedances of the air quality standards would be inconsistent with the goal of attaining the air quality standards.
- AQP emissions inventories and attainment modeling are based on growth assumptions for the area within the air district's jurisdiction.
- AQPs rely on a set of air district-initiated control measures as well as implementation of federal and state measures to reduce emissions within their jurisdictions, with the goal of attaining the air quality standards.

Contribution to Air Quality Violations

As discussed in Impact AIR-B below, emissions of ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ associated with the proposed project would not exceed the SJVAPCD's significance thresholds during the construction phase (see Table 10) or emissions of NO_X, CO, SO_X, $PM_{2.5}$ or PM_{10} during operations (see Table 11). However, emissions of ROG associated with the operation of the project would exceed the SJVAPCD's regional significance threshold prior to the incorporation of mitigation. After incorporation of mitigation measures MM AIR-2a through MM AIR-2d, the project would not exceed the SJVAPCD's regional thresholds of significance for any pollutant of concern (see Table 12) and would be considered consistent with the existing AQPs. Regarding this criterion, the project would be considered less than significant with incorporation of mitigation.

Air Quality Plan Control Measures

The AQP contains a number of control measures that are enforceable requirements through the adoption of rules and regulations. The following rules and regulations are relevant to the project:

Rule 2010—Permits Required. Rule 2010 requires operators of emission sources to obtain an authority to construct and permit to operate from the Valley Air District.

Rule 2201—New and Modified Stationary Source Review Rule. The review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards.

Rule 4201—Particulate Matter Concentration. This rule shall apply to any source operation that emits or may emit dust, fumes, or total suspended particulate matter.

Rule 4309—Boilers, Steam Generators, and Process Heaters. The purpose of this rule is to limit emissions of oxides of nitrogen (NO_X) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a total rated heat input greater than 5 million Btu per hour.

Rule 4601—Architectural Coatings. The purpose of this rule is to limit Volatile Organic Compounds (VOC) emissions from architectural coatings. Emissions are reduced by limits on VOC content and providing requirements on coatings storage, cleanup, and labeling. Only compliant components are available for purchase in the San Joaquin Valley.

Rule 4641—Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations. The purpose of this rule is to limit VOC emissions from asphalt paving and maintenance operations. If asphalt paving will be used, then the paving operations will be subject to Rule 4641. This regulation is enforced on the asphalt provider.

Rule 4702—Internal Combustion Engines. The purpose of this rule is to limit the emissions of NO_X, carbon monoxide (CO), VOC, and sulfur oxides (SO_X) from internal combustion engines. If the project includes emergency generators, the equipment is required to comply with Rule 4702.

Regulation VIII—Fugitive PM_{10} Prohibitions. This regulation is a control measure that is one main strategies from the 2006 PM_{10} for reducing the PM_{10} emissions that are part of fugitive dust. Projects over 10 acres are required to file a Dust Control Plan (DCP) containing dust control practices sufficient to comply with Regulation VIII. Rule 8021 regulates construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and trackout, etc. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.

Rule 9410–Employer Based Trip Reduction. The purpose of this rule is reduce VMT from private vehicles used by employees to commute to and from their worksites to reduce emissions of NO_X, VOC and PM. The rule would require larger employers (those with 100 or more eligible employees) to establish employee trip reduction programs to reduce VMT, reducing emissions associated with work commutes. The rule uses a menu-based Employer Trip Reduction Implementation Plan and periodic reporting requirements to evaluate performance on a phased-in compliance schedule.

Rule 9510–Indirect Source Review. This rule reduces the impact of NO_X and PM_{10} emissions from growth within the SJVAB. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through on-site mitigation, off-site District-administered projects, or a combination of the two.

Conclusion

The project would comply with all applicable CARB and SJVAPCD rules and regulations. Therefore, the project complies with this criterion and would not conflict with or obstruct implementation of the applicable air quality attainment plan with regards to this criterion.

The project's regional operational emissions would not exceed any applicable SJVAPCD threshold after incorporation of mitigation measures (see Impact AIR-B). Therefore, the project would be considered consistent with the existing AQPs with incorporation of mitigation.

Based on the findings above, the proposed project would not conflict with or obstruct implementation of the applicable air quality plan after incorporation of mitigation. The impact would be less than significant with incorporation of MM AIR-2a through MM AIR-2d.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?

Less than Significant Impact with Incorporation of Mitigation.

To result in a less than significant impact, emissions of nonattainment pollutants must be below the SJVAPCD's regional significance thresholds. This is an approach recommended by the SJVAPCD's in its GAMAQI. The SJVAB is in nonattainment for ozone, PM_{10} (State only), and $PM_{2.5}$. Ozone is a secondary pollutant that can be formed miles from the source of emissions, through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_X are termed ozone precursors. As such, the primary pollutants of concern during project construction and operation are ROG, NO_X, PM_{10}, and $PM_{2.5}$. The air quality standards were set to protect public health, including the health of sensitive individuals (such as children, the elderly, and the infirm). Therefore, when the concentration of those pollutants exceeds the standard, it is likely that some sensitive individuals in the population would experience adverse experience health effects. However, the health effects are a factor of the dose-response curve. Concentration of the pollutant in the air (dose), the length of time exposed, and the response of the individual are factors involved in the severity and nature of health impacts. If a significant health impact results from project emissions, it does not mean that 100 percent of the population would experience health effects.

Since the SJVAB is nonattainment for ozone, PM_{10}, and $PM_{2.5}$, it is considered to have an existing significant cumulative health impact without the project. When this occurs, the analysis considers whether the project's contribution to the existing violation of air quality standards is cumulatively considerable. The SJVAPCD regional thresholds for NO_X, ROG/VOC, PM_{10}, or $PM_{2.5}$ are applied as cumulative contribution thresholds. Projects that exceed the regional thresholds would have a cumulatively considerable health impact.

The SJVAPCD GAMAQI adopted in 2015 contains thresholds for CO, NO_X, ROG, SO_X, PM_{10}, and $PM_{2.5}$. Air pollutant emissions have both regional and localized effects. The project's regional emissions are compared to the applicable SJVAPCD below.

Criteria Pollutant Emission Estimates

Construction Emissions (Regional)

Construction emissions associated with the development envisioned for the proposed project are shown in Table 10 prior to the incorporation of any mitigation.

Table 10: Summary of Construction-Generated Emissions of Criteria Air Pollutants – Unmitigated

Emissions Source	Emissions (Tons/Year)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Project Construction (2024)	0.42	3.13	4.08	0.01	0.69	0.29
Project Construction (2025)	0.42	2.01	4.53	0.01	0.70	0.21
Project Construction (2026)	0.40	1.90	4.30	0.01	0.69	0.20
Project Construction (2027)	2.63	0.76	1.78	0.00	0.30	0.08
Off-site Improvements (2024)	0.02	0.19	0.21	< 0.01	0.02	0.01
Total Construction Duration						
Project Total	**3.89**	**7.99**	**14.90**	**0.03**	**2.40**	**0.79**
Significance Thresholds	**10**	**10**	**100**	**27**	**15**	**15**
Exceed Significance Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Notes:

PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.

Source of Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed January 2024.

As shown in Table 10 above, construction activities associated with the proposed project are estimated below the significance thresholds. Therefore, regional and cumulative impacts associated with construction of the proposed project are less than significant.

Operational Emissions (Regional)

Operational emissions occur over the lifetime of the project. The SJVAPCD considers permitted and non-permitted emission sources separately when making significance determinations. In addition, the annual operational emissions are also considered separately from construction emissions. Operational emissions associated with the proposed project are shown in Table 11. Operational emissions were estimated using a full buildout scenario in the earliest year of operations (2024), which provides a conservative estimate of emissions and resulting potential impacts.

Table 11: Summary of Operational Emissions of Criteria Air Pollutants – Unmitigated

Source	Emissions (tons/year)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	3.87	0.24	3.86	0.00	0.02	0.02
Energy	0.07	1.16	0.66	0.01	0.09	0.09
Mobile (Automobiles)	6.91	5.08	42.02	0.08	7.11	1.84
Annual Total (2024)	**10.85**	**6.48**	**46.54**	**0.09**	**7.22**	**1.95**
Significance Thresholds	**10**	**10**	**100**	**27**	**15**	**15**

Exceed Significance Thresholds?	**Yes**	**No**	**No**	**No**	**No**	**No**
Notes: Emissions were quantified using CalEEMod based on project details and earliest operational year for the proposed project. Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).						

As shown in Table 11, operational emissions would not exceed the applicable SJVAPCD thresholds of significance for NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$; however, the project would exceed the applicable threshold of significance for ROG. Therefore, the impact is potentially significant and requires mitigation. MM AIR-2a through MM AIR-2d are recommended to reduce the project's generation of ROG emissions to a less-than-significant level.

As shown in Table 11, the majority of ROG emissions from project operations are from mobile and area sources. Area sources include consumer products, architectural coatings, and landscaping. MM AIR-2a through MM AIR-2c address these three emission sources, while MM AIR-2d requires the preparation of a Transportation Demand Management (TDM) program to reduce mobile-source emissions. In order to account for the TDM, a 15 percent reduction was applied to the mitigated operational mobile source emissions. A summary of the project's operational emissions of criteria air pollutants after the incorporation of MM AIR-2a through MM AIR-2d is shown in Table 12.

Table 12: Summary of Operational Emissions of Criteria Air Pollutants – Mitigated

Source	**Emissions (tons/year)**					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area	3.84	0.24	3.86	0	0.02	0.02
Energy	0.07	1.16	0.66	0.01	0.09	0.09
Mobile (Automobiles)[1]	5.87	4.32	35.72	0.07	6.05	1.57
Annual Total (2024)	**9.78**	**5.72**	**40.24**	**0.08**	**6.16**	**1.68**
Significance Thresholds	**10**	**10**	**100**	**27**	**15**	**15**
Exceed Significance Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**
Notes: Emissions were quantified using CalEEMod based on project details and earliest operational year for the project. [1] In order to account for the TDM, a 15 percent reduction was applied to the mitigated operational mobile source emissions. Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).						

As shown in Table 12, the project's long-term operational emissions would not exceed any of the SJVAPCD's project-level regional thresholds of significance after incorporation of MM AIR-2a through MM AIR-2d. Therefore, the impact from operations of the project would be less than significant with incorporation of mitigation.

Conclusion

As shown in Table 10, the project's regional emissions would not exceed the applicable regional criteria pollutant emissions quantitative thresholds during project construction. During operations, the project would not exceed the applicable regional criteria pollutant emissions quantitative thresholds after incorporation of MM AIR-2a through MM AIR-2d (see Table 12). Therefore, the impact would be less than significant with incorporation of mitigation.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact.

Emissions occurring at or near the project have the potential to create a localized impact that could expose sensitive receptors to substantial pollutant concentrations. Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools.

The closest existing sensitive receptors to the project site include residential receptors. There are existing rural residences to the southwest of the project, the closest of which is approximately 500 feet southwest of the project boundary. The next closest sensitive receptors include residences located to the southeast and east of the project site, the closest of which is located approximately 700 feet southeast of the project boundary. See Attachment B for a graphical representation of the sensitive receptor locations within approximately ¼-mile of the project site.

Localized Impacts

Emissions occurring at or near the project have the potential to create a localized impact also referred to as an air pollutant hotspot. Localized emissions are considered significant if when combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, significance is based on a significant impact level (SIL) that represents the amount that is considered a cumulatively considerable contribution to an existing violation of an air quality standard. The pollutants of concern for localized impact in the SJVAB are NO_2, SO_X, and CO.

The SJVAPCD has provided guidance for screening localized impacts in the GAMAQI that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds 100 pounds per day of any criteria pollutant, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it would not cause a violation of an ambient air quality standard.

Construction: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, SO_X, and NO_X

Local construction impacts would be short-term in nature lasting only during the duration of construction. As shown in Table 13 below, on-site construction emissions would be less than 100 pounds per day for each of the criteria pollutants. To present a conservative estimate, on-site emissions for on-road construction vehicles were included in the localized analysis. Based on the SJVAPCD's guidance, the construction emissions would not cause an ambient air quality standard violation.

Table 13: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X for Construction – Unmitigated

Emission Source	On-site Emissions (pounds per day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Project Site Construction						
On-site Daily Project Construction (Highest in 2024)	4.69	36.03	33.23	0.06	9.46	5.43
On-site Daily Project Construction (Highest in 2025)	3.19	12.16	20.83	0.02	0.84	0.47
On-site Daily Project Construction (Highest in 2026)	2.98	11.53	20.22	0.02	0.79	0.42
On-site Daily Project Construction (Highest in 2027)	92.95	11.98	22.09	0.03	0.98	0.43
Off-site Pipeline Improvements						
On-site Daily Off-site Construction (Highest in 2024)	0.68	5.52	7.01	0.01	0.55	0.34
Total Construction Duration (2024-2027)						
Highest Daily Maximum	**92.95**	**41.56**	**40.23**	**0.07**	**10.01**	**5.77**
Significance Thresholds	**—**	**100**	**100**	**100**	**100**	**100**
Exceed Significance Thresholds?	**—**	**No**	**No**	**No**	**No**	**No**

Note: Overlap of construction activities is based on the construction schedule shown in Table 2 and Attachment A.

Source of Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A). Maximum daily emissions represent the maximum daily emissions between the Summer and Winter scenarios.

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed January 2024.

Operation: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, SO_X, and NO_X

Localized impacts could occur in areas with a single large source of emissions such as a power plant or with multiple sources concentrated in a small area such as a distribution center. The maximum daily operational emissions would occur at project buildout, which was assumed to occur in 2024 (the earliest year of operations). Operational emissions include those generated on-site by area sources such as consumer products and landscape maintenance, energy use from natural gas combustion, and motor vehicles operation at the project site. Motor vehicle emissions are estimated for on-site operations using trip lengths for on-site travel and ¼-mile of off-site emissions. Localized operational emissions are summarized in Table 14 below.

Table 14: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X for Operations

Source	On-site Emissions (pounds per day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$

Area	23.69	4.98	44.08	0.03	0.43	0.43
Energy	0.36	6.35	3.60	0.04	0.50	0.50
Mobile (Automobiles)	48.32	16.22	116.23	0.08	4.88	1.31
Total	**72.37**	**27.55**	**163.91**	**0.15**	**5.81**	**2.24**
Significance Thresholds	**—**	**100**	**100**	**100**	**100**	**100**
Exceed Significance Thresholds?	**—**	**No**	**Yes**	**No**	**No**	**No**

Source of Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed January 2024.

As shown in Table 14 above, the proposed project would exceed the SJVAPCD 100-pound-per-day screening threshold for CO but would not exceed other operational screening thresholds for each of the criteria pollutants. Therefore, based on the SJVAPCD's guidance, the operational emissions would not cause an ambient air quality standard violation for NO_X, PM_{10}, or $PM_{2.5}$. Further analysis is needed to determine whether would be significant for CO, which is provided below.

As shown in Table 14, the majority of CO emissions would be from mobile sources, such as passenger vehicles driven by future residents, employees, and other visitors to access the project site. Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles. A CO hotspot represents a condition wherein high concentrations of CO may be produced by motor vehicles accessing a congested traffic intersection under heavy traffic volume conditions. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Accordingly, vehicle emissions standards have become increasingly more stringent to help remedy this impact.

The analysis prepared for CO attainment in the South Coast Air Basin (SoCAB) by the South Coast Air Quality Management District (SCAQMD) has been used to assist in evaluating potential for CO exceedances in other air basins. Although the SoCAB and the SCAQMD would not be the applicable air basin or air district for the project, applying this guidance is appropriate in this analysis because CO exceedances are caused by idling vehicles and regardless of air district. For example, any project-generated vehicles trips would result in idling of passenger vehicles or trucks at the project site and on adjacent roadways that could lead to a CO exceedance. By using the 1992 CO Plan as a worst-case scenario, the proposed project can measure CO impacts against intersections that experienced significantly more vehicle traffic than adjacent to the proposed project. The 1992 CO Plan is used a worst-case scenario because it included a CO hot spot analysis for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. Subsequently the CO Plan determined that no CO hotspot would occur even with 100,000 vehicles per day at this one intersection.

The traffic volumes near the project site, with project trips, are provided in the project-specific traffic impact analysis. The project-specific traffic impact study reported the number of average daily trips for the

proposed mixed-use project: 10,786 average weekday trips.[11] The traffic volumes at intersections in the study area around the project are lower than what was analyzed in the 1992 CO Plan. Therefore, none of the intersections near the project site would have peak-hour traffic volumes exceeding those at the intersections modeled in the 1992 CO Plan, nor would there be any reason unique to the local meteorology to conclude that this intersection would yield higher CO concentrations if modeled in detail because the project site is not located in an area where air flow would be severely restricted, such as a tunnel or canyon. In conclusion, the addition of the proposed project's daily trips would not generate a CO hotspot at local intersections and operational CO impact would be less than significant.

Toxic Air Contaminants

Construction

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. The SJVAPCD's current threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million). The SJVAPCD's 2015 GAMAQI does not currently recommend analysis of TAC emissions from project construction activities, but instead focuses on projects with operational emissions that would expose sensitive receptors over a typical lifetime of 70 years. In addition, the most intense construction activities of the project's construction would occur during site preparation and grading phases over a short period. There are no conditions unique to the project site that would require more intense construction activity compared to typical development. Examples of situations that would warrant closer scrutiny may include sites that would require extensive excavation and hauling due to existing site conditions. Building construction typically requires limited amounts of diesel equipment relative to site clearing activities. Nonetheless, a construction HRA was prepared as part of this analysis. In addition, the analysis includes an evaluation of potential health impacts from construction and operations of the project considered together, over a 70-year exposure scenario.

The results of the HRA prepared for project construction for cancer risk and long-term chronic cancer risk are summarized below. Construction emissions were estimated assuming adherence to all applicable rules, regulations, and project design features. The construction emissions were assumed to be distributed over the project area with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period. Health risk calculations were completed using HARP2. Detailed parameters and complete calculations are included in Attachment B.

The estimated health and hazard impacts at the Maximally Exposed Receptor (MER) from the project's construction emissions are provided in Table 15.

[11] JLB Traffic Engineering, Inc. 2023.Traffic Impact Analysis Report: Casitas Selmn Located on the Southwest Quadrant of Highland Avenue and Floral Avenue in the City of Selma, California. October 10.

Table 15: Summary of the Health Impacts from Unmitigated Construction of the Project

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard Index
Risks and Hazards at the MER			
Risks and Hazards at the MER[1] from Project Construction	2.88	0.0015	0.0000
Risks and Hazards at the MER[2] from Off-site Improvements	1.31	0.0042	0.0000
Total Health Risk Metrics from Construction	**4.19**	**0.0057**	**0.0000**
Significance Threshold	**20**	**1**	**1**
Threshold Exceeded in Any Scenario?	**No**	**No**	**No**

Notes:
MER = Maximally Exposed Receptor
DPM = Diesel Particulate Matter
Selma Mixed-use Project Unmitigated Construction MER UTM: (264814.83, 4050642.58)
Off-site Improvements MER UTM: (265384.24, 4050226.48)
Source: Attachment B.

As shown in Table 15, the estimated health risk metrics resulting from the proposed project's construction DPM emissions would not exceed the cancer risk significance threshold or non-cancer hazard index significance threshold at the MER. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from TACs during construction.

Operations

Unlike warehouses or distribution centers, the daily vehicle trips generated by the proposed mixed-use project consisting of commercial and residential uses would be primarily generated by passenger vehicles. Passenger vehicles typically use gasoline engines rather than the diesel engines that are found in heavy-duty trucks. Gasoline-powered vehicles do emit TACs in the form of toxic organic gases, some of which are carcinogenic. Compared to the combustion of diesel, the combustion of gasoline had relatively low emissions of TACs. Thus, residential and produce limited amounts of TAC emissions during operation. Nonetheless, it is anticipated that there would be some heavy-duty trucks visiting the project site during operations. Consistent with SJVAPCD guidance, an operational prioritization screening analysis was completed for the proposed project.

Operational DPM emissions from diesel trucks were estimated using emission factors from CARB's EMFAC and estimated truck travel and idling at the project site based on average daily trips and the SJVAPCD-approved residential fleet mix. The emissions were entered into the SJVAPCD Prioritization Screening Tool to determine the risk scores, with complete calculations and assumptions included as part of Attachment B. The results of the screening analysis are provided in Table 16.

Table 16: Prioritization Tool Health Risk Screening Results

Impact Source	Cancer Risk Score	Chronic Risk Score	Acute Risk Score
Diesel Trucks	25.12	0.006	0.000

Total Risk from Project Operations	**25.12**	**0.006**	**0.000**
Screening Risk Score Threshold	**10**	**1**	**1**
Screening Thresholds Exceeded?	**Yes**	**No**	**No**
Source: Attachment B – Health Risk Assessments.			

As shown in Table 16, the project would exceed the SJVAPCD's applicable cancer risk screening level. Therefore, further analysis is required to determine the project's potential to expose sensitive receptors to elevated levels of TACs during operations.

An analysis of TACs (including DPM) was performed using the EPA-approved AERMOD model, which is an air dispersion model accepted by the SJVAPCD for preparing HRAs. AERMOD versions 22112 and 23132 were used for this analysis. Consistent with SJVAPCD guidance, the health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 70-year exposure scenario. Results of the HRA are summarized in Table 17. The complete HRA prepared for the proposed project, including calculations, AERMOD output data, and HARP2 files, are included in Attachment B.

Table 17: Summary of the Health Impacts from Operations of the Proposed Project and Combined Construction and Operations (70-year Scenarios)

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard Index
70-Year Exposure at the MER starting in the Third Trimester (from DPM Emissions)	5.09	0.0010	0.0000
Combined 70-Year Exposure Scenario for Construction plus Operations[1,2] at the Construction MER	5.98	0.0026	0.0000
Combined 70-Year Exposure Scenario for Construction plus Operations[1,3] at the Operational MER	6.12	0.0027	0.0000
Applicable Threshold of Significance	**20**	**1**	**1**
Threshold Exceeded in Any Scenario?	**No**	**No**	**No**

Notes:

MER = Maximally Exposed Receptor

DPM = Diesel Particulate Matter

Operational MER: Receptor #186 (see Attachment B)

Construction MER: Receptor #1 (see Attachment B)

[1] For the combined scenarios, operations were assumed to begin immediately following construction and start at age 3 (see Attachment B).

[2] The combined cancer risk at the construction MER is 5.98 in a million (2.88/million from project construction + 0.07/million from off-site improvements + 3.03/million from operations).

[3] The combined cancer risk at the operational MER is 6.12 in a million (2.78/million from construction + 0.08/million from off-site improvements + 3.26/million from operations).

Source: Attachment B.

As shown in Table 17, the project would not exceed the cancer risk, chronic risk, or acute risk threshold levels in any scenario analyzed. The primary source of the emissions responsible for chronic risk are from diesel trucks during operations and off-road diesel equipment during construction. DPM does not have an acute risk factor, resulting in an acute non-cancer hazard index of zero (0) for all receptors. Since the project does not exceed the applicable SJVAPCD thresholds for cancer risk, acute risk, or chronic risk, the impact related to the project's potential to expose sensitive receptors to substantial pollutant concentrations would be less than significant.

Valley Fever

Valley fever, or coccidioidomycosis, is an infection caused by inhalation of the spores of the fungus, *Coccidioides immitis* (*C. immitis*). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities.

The San Joaquin Valley is considered an endemic area for Valley fever. The San Joaquin Valley is considered an endemic area for Valley fever. During 2000–2018, a total of 65,438 coccidioidomycosis cases were reported in California; median statewide annual incidence was 7.9 per 100,000 population and varied by region from 1.1 in Northern and Eastern California to 90.6 in the Southern San Joaquin Valley, with the largest increase (15-fold) occurring in the Northern San Joaquin Valley. Incidence has been consistently high in six counties in the Southern San Joaquin Valley (Fresno, Kern, Kings, Madera, Tulare, and Merced counties) and Central Coast (San Luis Obispo County) regions.[12] California experienced 7,962 new probable or confirmed cases of Valley fever in 2021. A total of 408 suspect, probable, and confirmed Valley fever cases were reported in Fresno County in 2021.[13]

The distribution of *C. immitis* within endemic areas is not uniform and growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for *C. immitis* growth. Avoidance, when possible, of sites favorable for the occurrence of *C. immitis* is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of *C. immitis*:

1) Rodent burrows (often a favorable site for *C. immitis*, perhaps because temperatures are more moderate and humidity higher than on the ground surface)
2) Old (prehistoric) Indian campsites near fire pits
3) Areas with sparse vegetation and alkaline soils
4) Areas with high salinity soils
5) Areas adjacent to arroyos (where residual moisture may be available)
6) Packrat middens
7) Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils
8) Sandy, well-aerated soil with relatively high water-holding capacities

[12] Centers for Disease Control and Prevention (CDC). 2020. Regional Analysis of Coccidioidomycosis Incidence—California, 2000–2018. Website: https://www.cdc.gov/mmwr/volumes/69/wr/mm6948a4.htm?s_cid=mm6948a4_e. Accessed April 10, 2023.

[13] California Department of Public Health (CDPH). 2021. Coccidioidomycosis in California Provisional Monthly Report January 2021. Website: https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciinCA ProvisionalMonthlyReport.pdf. Accessed April 10, 2023.

Sites within endemic areas less favorable for the occurrence of *C. immitis* include:

1) Cultivated fields
2) Heavily vegetated areas (e.g., grassy lawns)
3) Higher elevations (above 7,000 feet)
4) Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied
5) Areas that are continually wet
6) Paved (asphalt or concrete) or oiled areas
7) Soils containing abundant microorganisms
8) Heavily urbanized areas where there is little undisturbed virgin soil.[14]

The project is situated on a site previously disturbed that does not provide a suitable habitat for spores. Specifically, the project site had been previously graded and has vegetation cover in the form of grass. Therefore, implementation of the proposed project would have a low probability of the site having *C. immitis* growth sites and exposure to the spores from disturbed soil.

Although conditions are not favorable, construction activities could generate fugitive dust that contains *C. immitis* spores. The project will minimize the generation of fugitive dust during construction activities by complying with SJVAPCD's Regulation VIII. Therefore, this regulation, combined with the relatively low probability of the presence of *C. immitis* spores would reduce Valley fever impacts to less than significant.

During operations, dust emissions are anticipated to be relatively small because most of the project area where operational activities would occur would be occupied by the proposed mixed-use project and related buildings and pavement. This condition would lessen the possibility of the project site providing habitat suitable for *C. immitis* spores and for generating fugitive dust that may contribute to Valley fever exposure. Impacts would be less than significant.

Naturally Occurring Asbestos

Review of the map of areas where naturally occurring asbestos in California are likely to occur found no such areas in the immediate project area. Therefore, development of the project is not anticipated to expose receptors to naturally occurring asbestos.[15] Impacts would be less than significant.

Operations—The Project's Potential to Locate Sensitive Receptor Near Existing Sources of TACs

As a mixed-use project consisting of residential and commercial uses, the project would locate sensitive receptors (future residents) to a site where future project residents could be subject to existing sources of TACs at the project site. However, the California Supreme Court concluded in *California Building Industry Association (CBIA) v. Bay Area Air Quality Management District (BAAQMD)* that agencies subject to

[14] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf. Accessed May 20, 2023.

[15] U.S. Geological Survey. 2011. Van Gosen, B.S., and Clinkenbeard, J.P. California Geological Survey Map Sheet 59. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Open-File Report 2011-1188 Website: https://pubs.usgs.gov/of/2011/1188/. Accessed May 20, 2023.

CEQA are not required to analyze the impact of existing environmental conditions on a project's future users or residents. Therefore, this impact will not be further addressed in this document.

Impact Analysis Summary

In summary, the project would not exceed SJVAPCD localized emission daily screening levels for any criteria pollutant. The project is not a significant source of TAC emissions during construction or operation. The project is not in an area with suitable habitat for Valley fever spores and is not in an area known to have naturally occurring asbestos. Therefore, the project would not result in significant impacts to sensitive receptors.

d) Result in other emissions (such as those leading to odors or) adversely affecting a substantial number of people?

Less Than Significant Impact.

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor. The proposed project has the potential to create either or both situations because it involves a potential new odor source and would be considered a sensitive receptor land use once operational.

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

Although the project is less than one mile from the nearest sensitive receptor, the project is not expected to be a significant source of odors. The screening levels for these land use types are shown in Table 18.

Table 18: Screening Levels for Potential Odor Sources

Odor Generator	Screening Distance
Wastewater Treatment Facilities	2 miles
Sanitary Landfill	1 mile
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	1 mile
Chemical Manufacturing	1 mile
Fiberglass Manufacturing	1 mile
Painting/Coating Operations (e.g., auto body shop)	1 mile
Food Processing Facility	1 mile
Feed Lot/Dairy	1 mile
Rendering Plant	1 mile
Wastewater Treatment Facilities	2 miles
Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. March 19. Website: https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf. Accessed May 24, 2023.	

Construction

During construction, various diesel-powered vehicles and equipment in use on-site would create localized odors. These odors would be temporary and intermittent, which would decrease the likelihood of the odors concentrating in a single area or lingering for any notable period of time. As such, these odors would likely not be noticeable for extended periods of time beyond the project's site boundaries. The potential for odor impacts from construction of the proposed project would, therefore, be less than significant.

Operations

Project as a Potential Odor Generator

The development of the proposed project would not substantially increase objectionable odors in the area and would not introduce any new sensitive receptors to the area that could be affected by any existing objectionable odor sources in the area. Land uses that are typically identified as sources of objectionable odors include landfills, transfer stations, sewage treatment plants, wastewater pump stations, composting facilities, asphalt batch plants, rendering plants, and other land uses outlined in Table 18. The proposed project would not engage in any of these activities. Minor sources of odors that would be associated with uses typical of commercial and residential mixed-use projects, such as exhaust from mobile sources (including diesel-fueled heavy trucks), are known to have temporary and less concentrated odors. Considering the low intensity of potential odor emissions, the proposed project's operational activities would not expose receptors to objectionable odor emissions. Therefore, the proposed project would not be considered to be a generator of objectionable odors during operations. As such, impacts would be less than significant.

Project as a Receptor

As a mixed-use project consisting of proposed residential and commercial uses, the project would locate sensitive receptors (future residents) to a site where future project residents could be subject to existing sources of TACs at the project site. With the *CBIA v. BAAQMD* ruling, analysis of odor impacts on receivers is not required for CEQA compliance unless the project would exacerbate the impact. As discussed above, the proposed project would not be considered to be a generator of objectionable odors during operations. Therefore, the project would not exacerbate any potential odor impacts and this impact will not be further addressed in this document.

Greenhouse Gas Emissions Estimation Summary and Greenhouse Gas Impact Analysis

Thresholds of Significance

Section 15064.4(b) of the CEQA Guidelines for GHG emissions states that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG 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 include specific requirements that reduce or mitigate the project's incremental contribution of greenhouse gas emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project. 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.

The SJVAPCD's *Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA* provides guidance for preparing a BAU analysis.[16] Under the SJVAPCD guidance, projects meeting one of the following would have a less than significant impact on climate change:

- Exempt from CEQA;
- Complies with an approved GHG emission reduction plan or GHG mitigation program;
- Project achieves 29 percent GHG reductions by using approved Best Performance Standards; and
- Project achieves AB 32 targeted 29 percent GHG reductions compared with "business as usual."

The SJVAPCD has not yet adopted BPS for development projects that could be used to streamline the GHG analysis. For development projects, BPS means, "[a]ny combination of identified GHG emission reduction measures, including project design elements and land use decisions that reduce project-specific GHG emission reductions by at least 29 percent compared with business as usual."

The 29 percent GHG reduction level is based on the target established by CARB's AB 32 Scoping Plan, approved in 2008. The GHG reduction level for the State to reach 1990 emission levels by 2020 was reduced to 21.7 percent from BAU in 2020 in the 2014 First Update to the Scoping Plan to account for slower than projected growth after the 2008 recession.[17] First occupancy at the project site is expected to occur in 2024, which is after the AB 32 target year. The SJVAPCD has not updated its guidance to address SB 32 2030 targets or AB 1279 2045 targets. Therefore, whether the project's GHG emissions

[16] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. "Final Staff Report, Addressing Greenhouse Gas Emissions Impacts under the California Environmental Quality Act." Website: http://www.valleyair.org/programs/CCAP/11-05-09/1_CCAP_FINAL_CEQA_GHG_Draft_Staff_Report_Nov_05_2009.pdf. December 2009. Accessed May 24, 2023.

[17] California Air Resources Board (CARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed May 24, 2023.

would result in a significant impact on the environment is determined by assessing consistency with relevant GHG reduction plans.

Quantification of Greenhouse Gas Emissions for Informational Purposes

Construction

GHG emissions generated during all construction activities were combined and are shown in Table 19.

Table 19: Summary of Construction-Generated Greenhouse Gas Emissions

Emissions Source	MT CO_{2e} per Year
Project Construction (2024)	941
Project Construction (2025)	1,096
Project Construction (2026)	1,080
Project Construction (2027)	453
Project Construction Total	**3,570**
Amortized over 30 Years	**119**

Notes:
MT CO_2e = metric tons of carbon dioxide equivalent
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Operations

Operational or long-term emissions occur over the life of the project. Sources of emissions may include motor vehicles and trucks, energy usage, water usage, waste generation, and area sources, such as landscaping activities. Operational GHG emissions associated with the proposed project were estimated using CalEEMod 2022.1. Please see the "Assumptions" sections of this technical memorandum for details regarding assumptions and methodology used to estimate emissions. Operational GHG emissions in the buildout year are shown in Table 20. Complete CalEEMod output files and additional supporting information are also included in Attachment A.

Table 20: Project Operational GHG Emissions (Buildout Year Scenario)

Emission Source	Unmitigated Buildout Year Total Emissions (MT CO_2e per year)	Mitigated Buildout Year Total Emissions[1] (MT CO_2e per year)
Area	245	245
Energy	1,775	1,775
Mobile (Automobiles)	7,785	6,617
Refrigerants	575	575
Water	60	60
Waste	321	321
Total (MT CO_2e per year)	**10,761**	**9,593**

Notes:
[1] The mitigated scenario represents emissions after the incorporation mitigation measures (MM AIR-2a through MM AIR-2d, which would have co-benefits to reduce GHG emissions. To account for the TDM, a 15 percent reduction was applied to the mitigated operational mobile source emissions.
Source of Buildout Year Emissions: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Addressing Greenhouse Gas CEQA Impact Questions

Table 21: Summary of Greenhouse Gas Impact Analysis

Greenhouse Gas Emissions	
Would the project:	**Significance Finding**
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Less than Significant Impact
b) Conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Less than Significant Impact

Greenhouse Gas Mitigation Measures

No mitigation is required.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact.

The following analysis assesses the project's compliance with Consideration #3 regarding consistency with adopted plans to reduce GHG emissions. The project is in the City of Selma, which is within Fresno County. Neither the City of Selma nor the County of Fresno have adopted a GHG reduction plan that would be applicable to the proposed project. In addition, neither the City of Selma nor the County of Fresno have completed the GHG inventory, benchmarking, or goal-setting process required to identify a reduction target and take advantage of the streamlining provisions contained in the CEQA Guidelines. The SJVAPCD has adopted a Climate Action Plan, but it does not contain measures that are applicable to the project. Therefore, the SJVAPCD Climate Action Plan cannot be applied to the project. Since no other local or regional Climate Action Plan is in place, the project is assessed for its consistency with CARB's adopted Scoping Plans.

Consistency with CARB's Adopted Scoping Plans

The State's regulatory program implementing the 2008 Scoping Plan is now fully mature. All regulations envisioned in the Scoping Plan have been adopted, and the effectiveness of those regulations has been estimated by the agencies during the adoption process and then tracked to verify their effectiveness after implementation. The combined effect of this successful effort is that the State now projects that it will meet the 2020 target and achieve continued progress toward meeting post-2020 targets. Former Governor Brown, in the introduction to Executive Order B-30-15, stated "California is on track to meet or exceed the current target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32)."

Consistency with SB 32 and the 2017 Scoping Plan

The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32. Table 22 provides an analysis of the project's consistency with the 2017 Scoping Plan Update measures.

Table 22: Consistency with SB 32 2017 Scoping Plan Update

Scoping Plan Measure	Project Consistency
SB 350 50% Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33% in 2020 to 50% in 2030 (now 60% under SB 100).	**Consistent**: The project will purchase electricity from a utility subject to the SB 350 Renewable Mandate. The specific provider for this project is Pacific Gas and Electric Company (PG&E). In February 2018, PG&E announced that it had reached California's 2020 renewable energy goal 3 years ahead of schedule and delivers nearly 80 percent of its electricity from GHG-free resources.[1]
SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels.	**Not Applicable**. This measure applies to existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. New buildings constructed as part of the proposed project would comply with the applicable Title 24 Energy Efficiency Standards in effect at the time building permits are received. The current Title 24 regulations are the 2022 Title 24 standards, which become effective January 1, 2023.
Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030.	**Consistent**. This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site would be subject to the standards. Vehicles accessing the project site will use fuel containing lower carbon content as the fuel standard is implemented.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses.	**Consistent**. Future employees, patrons, residents, and visitors can be expected to purchase increasing numbers of more fuel-efficient and zero emission cars and trucks each year.
Sustainable Freight Action Plan. The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030.	**Not Applicable.** The measure applies to owners and operators of trucks and freight operations. The project is a mixed-use project consisting of commercial and residential development and would not be considered an industrial use or a large freight operator. However, commercial and home deliveries are expected to be made by increasing numbers of ZEV delivery trucks as technology continues to improve accessibility to ZEV vehicles and as regulations are phased in over time.
Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030.	**Consistent**. The project does not include sources that produce significant quantities of methane or black carbon. The project residences will include only natural gas hearths that produce very little black carbon compared to woodburning fireplaces and heaters. Commercial components of proposed project are not expected to be sources of black carbon; however, diesel trucks accessing the site will achieve significant reductions in $PM_{2.5}$ with adopted regulations that will reduce this source of black carbon.
SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a sustainable communities strategy for reduction of per capita vehicle miles traveled.	**Consistent.** The project will provide mixed-use residential and commercial development in the region that is consistent with the Regional Transportation Plan/Sustainable Communities Strategy (SCS)

Scoping Plan Measure	Project Consistency
	strategies to increase development densities to reduce VMT. The project includes mixed-use development including commercial and a mix of residential uses within the same area, which will contribute to reductions in VMT.
Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers.	**Consistent.** The post-2020 Cap-and-Trade Program indirectly affects people who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. 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 indirectly 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.
Natural and Working Lands Action Plan. CARB is working in coordination with several other agencies at the federal, state, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor's Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land.	**Not Applicable**. The project site is approximately 37.4 acres in size and would change the land use from Fallowed Agricultural Land (County of Fresno - AE20) to commercial and residential mixed-use. The 37.4-acre project site is located directly adjacent to built-up areas of the City of Selma and is within ¼-mile of State Route 99. The project site is currently covered in grass and native weeds and would not be considered a significant source of carbon sequestration. Once operational, the project would not be considered working lands.
Source: California Air Resources Board (CARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed May 24, 2023. [1] Pacific Gas and Electric (PG&E). 2018. PG&E Clean Energy Deliveries Already Meet Future Goals. Website: www.pge.com/en/about/newsroom/newsdetails/index.page?title=20180220_pge_clean_energy_deliveries_already_meet_future_goals. Accessed May 24, 2023.	

As described in Table 22, the proposed project would be consistent with applicable 2017 Scoping Plan Update measures and would not obstruct the implementation of others that are not applicable. The State's regulatory program is able to target both new and existing development because the two most important strategies, motor vehicle fuel efficiency and emissions from electricity generation, obtain reductions equally from existing sources and new sources. This is because all vehicle operators use cleaner low carbon fuels and buy vehicles subject to the fuel efficiency regulations and all building owners or operators purchase cleaner energy from the grid that is produced by increasing percentages of renewable fuels. This includes regulations on mobile sources such as the Pavley standards that apply to all vehicles purchased in California, the LCFS (Low Carbon Fuel Standard) that applies to all fuel sold in California, and the Renewable Portfolio Standard and Renewable Energy Standard under SB 100 that apply to utilities providing electricity to all California end users.

Moreover, the Scoping Plan strategy will achieve more than average reductions from energy and mobile source sectors that are the primary sources related to development projects and lower than average reductions from other sources such as agriculture. The proposed project's operational GHG emissions would principally be generated from electricity consumption and vehicle use, which are directly under the purview of the Scoping Plan strategy and have experienced reductions above the State average reduction.

Considering the information summarized above, the proposed project would be consistent with the State's AB 32 and SB 32 GHG reduction goals.

Consistency Regarding GHG Reduction Goals for 2050 under Executive Order S-3-05 and GHG Reduction Goals for 2045 under the 2022 Scoping Plan

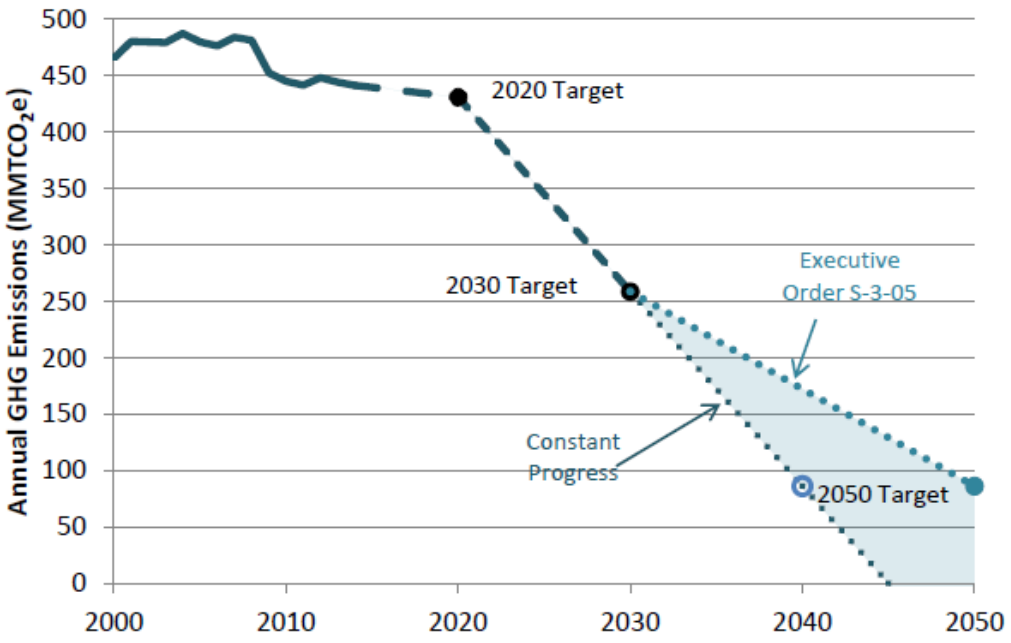
Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it can be anticipated that operation of the proposed project would comply with whatever measures are enacted that State lawmakers decide would lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, CARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update; however, CARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately."

CARB recognized that AB 32 established an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [greenhouse gas emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, CARB's First Update "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by CARB would serve to reduce the proposed project's post-2020 emissions level to the extent applicable by law:

- **Energy Sector:** Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the State's zero net energy building goals, would serve to reduce the proposed project's emissions level. Additionally, further additions to California's renewable resource portfolio would favorably influence the project's emissions level.
- **Transportation Sector:** Anticipated deployment of improved vehicle efficiency, zero emission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level.
- **Water Sector:** The project's emissions level will be reduced as a result of further desired enhancements to water conservation technologies.
- **Waste Management Sector:** Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level.

For the reasons described above, the project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets. The trajectory required to achieve the post-2020 targets is shown in Figure 2.

Figure 2: California's Path to Achieving the 2050 Target



Source: CARB 2017 Scoping Plan Update

In his January 2015 inaugural address, former Governor Brown expressed a commitment to achieve "three ambitious goals" that he would like to see accomplished by 2030 to reduce the State's GHG emissions:

- Increasing the State's Renewable Portfolio Standard from 33 percent in 2020 to 50 percent in 2030;
- Cutting the petroleum use in cars and trucks in half; and
- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the state agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change. Studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and

the corresponding effect on GHG emissions. For the reasons described above, the proposed project future emissions trajectory is expected to follow a declining trend, consistent with the 2030, 2045, and 2050 targets.

The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target. In addition, the 2022 Scoping Plan outlines objectives, regulations, planning efforts, and investments in clean technologies and infrastructure that outlines how the State can achieve carbon-neutrality by 2045. Accordingly, taking into account the proposed project's design features and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the proposed project would be consistent with State GHG Plans and would further the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050, and does not obstruct their attainment.

Impact Analysis Summary

As described above, the proposed project would be consistent with State GHG Plans and would not obstruct the State's ability to meet its goals of reducing GHG emissions 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050. Therefore, the project's generation of GHG emissions would not result in a significant impact on the environment.

b) Conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact.

The following analysis assesses the project's compliance with Consideration #3 regarding consistency with adopted plans to reduce GHG emissions. Neither the City of Selma nor the County of Fresno have adopted a GHG reduction plan that would be applicable to the proposed project. In addition, neither the City of Selma nor the County of Fresno have completed the GHG inventory, benchmarking, or goal-setting process required to identify a reduction target and take advantage of the streamlining provisions contained in the CEQA Guidelines. The SJVAPCD has adopted a Climate Action Plan, but it does not contain measures that are applicable to the project. Therefore, the SJVAPCD Climate Action Plan cannot be applied to the project. Since no other local or regional Climate Action Plan is in place, the project is assessed for its consistency with CARB's adopted Scoping Plans. This assessment is included under Impact GHG-A above. As demonstrated in the analysis contained under Impact GHG-A, the project would not conflict with any applicable plan, policy, or regulation of an agency adopted to reduce the emissions of greenhouse gases. This impact would be less than significant.

Energy

Environmental Setting

Pacific Gas and Electric Company provides electricity and natural gas service to the City of Selma. Upon buildout of the project site, electricity to the project site would be provided by PG&E. All electricity infrastructure would be located underground and would tie-in to existing infrastructure.

Based on PG&E's 2019 power content label, approximately 28.5 percent of PG&E's electricity for its base plan came from eligible renewable resources including solar, wind, geothermal, biomass, and small hydroelectric sources. Additionally, a larger percent of PG&E's total electric power mix was from GHG-free sources including nuclear, large hydroelectric, and eligible renewable sources of energy.[18] In 2020, approximately 85 percent of the electricity PG&E supplied was GHG free. PG&E reports that more than 35 percent of delivered electricity came from RPS-eligible sources in 2020, while PGE's 2020 power content label reports 30.6 percent of PG&E's retail sales were from eligible renewable sources.[19]

Methodology

The energy requirements for the proposed project were determined using the construction and operational estimates generated from the Air Quality Analysis (refer to Attachment A for related CalEEMod output files). The calculation worksheets for diesel fuel consumption rates for off-road construction equipment and on-road vehicles are provided in Attachment C. Short-term construction energy consumption is discussed below.

Short-Term Construction

Off-Road Equipment

Table 23 provides estimates of the project's construction fuel consumption from off-road construction equipment for the entire project, categorized by construction activity.

Table 23: Construction Off-Road Fuel Consumption

Project Component	Construction Activity	Fuel Consumption (gallons)
Selma Mixed-use Project (On-site, Off-road Equipment Use)	Site Preparation	2,728
	Grading	9,663
	Building Construction	29,249
	Paving	1,395
	Architectural Coating	162
	Project Construction Subtotal	***43,197***
Off-site Pipeline Improvements (Construction Off-road Equipment Use)	Linear, Grubbing & Land Clearing	55
	Linear, Grading & Excavation	533
	Linear, Drainage, Utilities, & Sub-Grade	279
	Linear, Paving	191
	Off-site Improvements Subtotal	***1,058***
Construction Grand Total		**44,255**
Note: Totals may not appear to match exactly to the detailed values presented in Appendix C due to rounding		
Source: Energy Consumption Calculations (Attachment C).		

[18] Pacific Gas & Electric (PG&E). 2020. 2019 Power Content Label. Website: https://www.energy.ca.gov/filebrowser/download/3245. Accessed May 24, 2023.

[19] Pacific Gas & Electric (PG&E). 2021. Corporate Sustainability Report 2021. Website: https://www.pgecorp.com/corp_responsibility/reports/2021/pf04_renewable_energy.html. Accessed May 24, 2023.

As shown in Table 23, use of off-road equipment associated with construction of the proposed project is estimated to consume approximately 44,255 gallons of diesel fuel over the entire construction duration. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the City of Selma, the larger Fresno County region, or other parts of California. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region.

On-Road Vehicles

On-road vehicles for construction workers, vendors, and haulers would require fuel for travel to and from the site during construction. Table 24 provides an estimate of the total on-road vehicle fuel usage during construction. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in other parts of the state. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region.

Table 24: Construction On-Road Fuel Consumption

Project Component	Total Annual Fuel Consumption (gallons)
Site Preparation	299
Grading	11,362
Building Construction	243,173
Paving	486
Architectural Coating	2,629
Off-site Pipeline Improvements	1,254
Construction Total	**259,203**
Note: Totals may not appear to sum correctly due to rounding Source: Energy Consumption Calculations (Attachment C).	

Other Energy Consumption Anticipated During Project Construction

Other equipment could include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. The project site is located in the City of Selma. As construction activities would occur primarily during daylight hours; it is anticipated that the use of construction lighting would be minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from 160 square feet to 720 square feet. A typical 720-square-foot office trailer would consume approximately 54,667 kWh during the approximate 3.24-year construction phase (Attachment C).

Long-Term Operations

Transportation Energy Demand

Table 25 provides an estimate of the daily and annual fuel consumed by vehicles traveling to and from the proposed project. These estimates were derived using the same assumptions used in the operational air quality analysis for the proposed project.

Table 25: Long-Term Operational Vehicle Fuel Consumption

Vehicle Type	Percent of Vehicle Trips	Annual VMT	Average Fuel Economy (miles/ gallon)	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	49.23	10,021,819	29.59	927.8	338,654
Light Trucks (Pickups) and Medium Vehicles	43.52	8,858,189	22.06	1100.2	401,572
Light-Heavy to Medium-Heavy Diesel Trucks	4.00	813,242	11.10	200.7	73,241
Heavy-heavy Trucks	1.05	213,656	6.01	97.4	35,554
Motorcycles	1.60	326,364	41.16	21.7	7,929
Other	0.60	123,118	7.52	44.8	16,370
Total	**100**	**20,356,388**	**—**	**2,392.6**	**873,320**

Notes:
VMT = vehicle miles traveled
Percent of Vehicle Trips and VMT provided by CalEEMod.
"Other" consists of buses and motor homes.
Source: Energy Consumption Calculations (Attachment C).

As shown above, annual vehicular fuel consumption is estimated to be 873,320 gallons of gasoline and diesel fuel combined. Using rates calculated for the 2024 operational year, daily consumption is estimated at 2,393 gallons of fuel (see Attachment C).

Building Energy Demand

As shown in Table 26 and Table 27, the proposed project is estimated to demand 4,956,469 kilowatt-hours (KWhr) of electricity and 24,646,500 1,000-British Thermal Units (kBTU) of natural gas, respectively, on an annual basis.

Table 26: Long-Term Electricity Usage

Land Use	Total Electricity Demand (KWhr/year)
Strip Mall	76,033
Fast Food Restaurant with Drive Thru	451,255
Fast Food Restaurant w/o Drive Thru (Fast Casual Restaurant)	321,718
Automobile Care Center (Vehicle Shop + Car Wash)	183,906
Hotel	924,632
Apartments Low Rise (Multifamily Housing)	1,474,469
Retirement Community	589,787
Apartments Low Rise (Affordable Housing)	884,681
City Park	0
Other Asphalt Surfaces	0
Parking Lot	49,988

Total	**4,956,469**
Source: Energy Consumption Calculations (Attachment C).	

Table 27: Long-Term Natural Gas Usage

Land Use	Total Natural Gas Demand (kBTU/year)
Strip Mall	70,505
Fast Food Restaurant with Drive Thru	1,262,715
Fast Food Restaurant w/o Drive Thru (Fast Casual Restaurant)	900,243
Automobile Care Center (Vehicle Shop + Car Wash)	635,112
Hotel	5,188,239
Apartments Low Rise (Multifamily Housing)	8,294,843
Retirement Community	3,317,937
Apartments Low Rise (Affordable Housing)	4,976,906
City Park	0
Other Asphalt Surfaces	0
Parking Lot	0
Total	**24,646,500**
Source: Energy Consumption Calculations (Attachment C).	

Addressing Energy CEQA Impact Questions

This section discusses potential energy impacts associated with the proposed project and provides mitigation measures where necessary.

Table 28: Summary of Energy Impact Analysis

Energy	
Would the project:	**Significance Finding**
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	Less than Significant Impact
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	Less than Significant Impact

Energy Mitigation Measures

No mitigation is required.

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact.

This impact addresses the energy consumption from both the short-term construction and long-term operations are discussed separately below.

Construction Energy Demand

As summarized in Table 23 and Table 24, the proposed project would require 44,255 gallons of diesel fuel for construction off-road equipment and 259,203 gallons of gasoline and diesel for on-road vehicles during construction. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the region or other parts of the state. In addition, the overall construction schedule and process is already designed to be efficient in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region, and as such, impacts would be less than significant.

Long-Term Energy Demand

Building Energy Demand

Buildings and infrastructure constructed pursuant to the proposed project would comply with the versions of CCR Titles 20 and 24, including California Green Building Standards (CALGreen), that are applicable at the time that building permits are issued. The proposed project is estimated to demand 4,956,469 KWhr of electricity per year and 24,646,500 kBTU of natural gas per year. As the project site is currently undeveloped, this would represent an increase in demand for electricity and natural gas.

It would be expected that building energy consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than for any other similar buildings in the City of Selma or the larger region. Current state regulatory requirements for new building construction contained in the 2022 CALGreen and Title 24 standards would increase energy efficiency and reduce energy demand in comparison to existing commercial structures, and therefore would reduce actual environmental effects associated with energy use from the proposed project. Additionally, the CALGreen and Title 24 standards have increased efficiency standards through each update. The most recent 2022 standards became effective January 1, 2023 and will be updated in the next cycle that will become effective at the start of 2026. Therefore, while the proposed project would result in increased electricity and natural gas demand, electricity and natural gas would be consumed more efficiently than most existing development.

Based on the above information, the proposed project would not result in the inefficient or wasteful consumption of electricity or natural gas, and impacts would be less than significant.

Transportation Energy Demands

The daily vehicular fuel consumption is estimated to be 2,393 gallons of both gasoline and diesel fuel. Annual consumption is estimated at 873,320 gallons. In addition, the proposed project would constitute development within an established community and would not be opening a new geographical area for development. Specifically, the project site is located in the western portion of the City of Selma, just west of built-up areas of the city and within ¼-mile of State Route 99. As such, the proposed residential and commercial mixed-use project would not result in unusually long trip lengths for future employees,

vendors, patrons, residents, or visitors. The proposed project would be well-positioned to accommodate an existing community. In addition, the mixed-use development is specifically designed for ease of travel using alternative transportation methods such as biking or walking, facilitated by the connectivity throughout the project site and the proximity of jobs and amenities to future project residents. Vehicles accessing the project site would be typical of vehicles accessing similar commercial and residential uses in the City of Selma region and surrounding areas. For these reasons, it would be expected that vehicular fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than for any other similar land use activities in the region, and impacts would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact.

The project proposes the construction of new commercial and residential development that would be built in accordance with all applicable rules and regulations. Compliance with established and applicable regulations would ensure that the project would not conflict with or obstruct any state or local plan for renewable energy or energy efficiency. Moreover, compliance with Title 24 standards would ensure that the proposed project would not conflict with any energy conservation policies related to the proposed project's building envelope, mechanical systems, and indoor and outdoor lighting. Notably, the applicable Title 24 standards require the project to include on-site renewable energy to serve the future project occupants and residents. In addition, the proposed project would constitute development within an established community. Specifically, the project site is adjacent to built-up areas of the City of Selma and is within ¼-mile of State Route 99. As such, the project would not be opening a new geographical area for development such that it would not result in unusually long trip lengths for future project employees, vendors, patrons, residents, or visitors. In addition, the proposed mixed-use development is specifically designed for ease of travel using alternative transportation methods such as biking or walking, facilitated by the connectivity throughout the project site and the proximity of jobs and amenities to future project residents.

For the above reasons, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and impacts would be less than significant.

Attachments

Attachment A – Modeling Assumptions and CalEEMod Output Files

Attachment B – Health Risk Assessments

Attachment C – Energy Consumption Calculations

ATTACHMENT A

Modeling Assumptions and CalEEMod Output Files

Modeling Assumptions and CalEEMod Output Files

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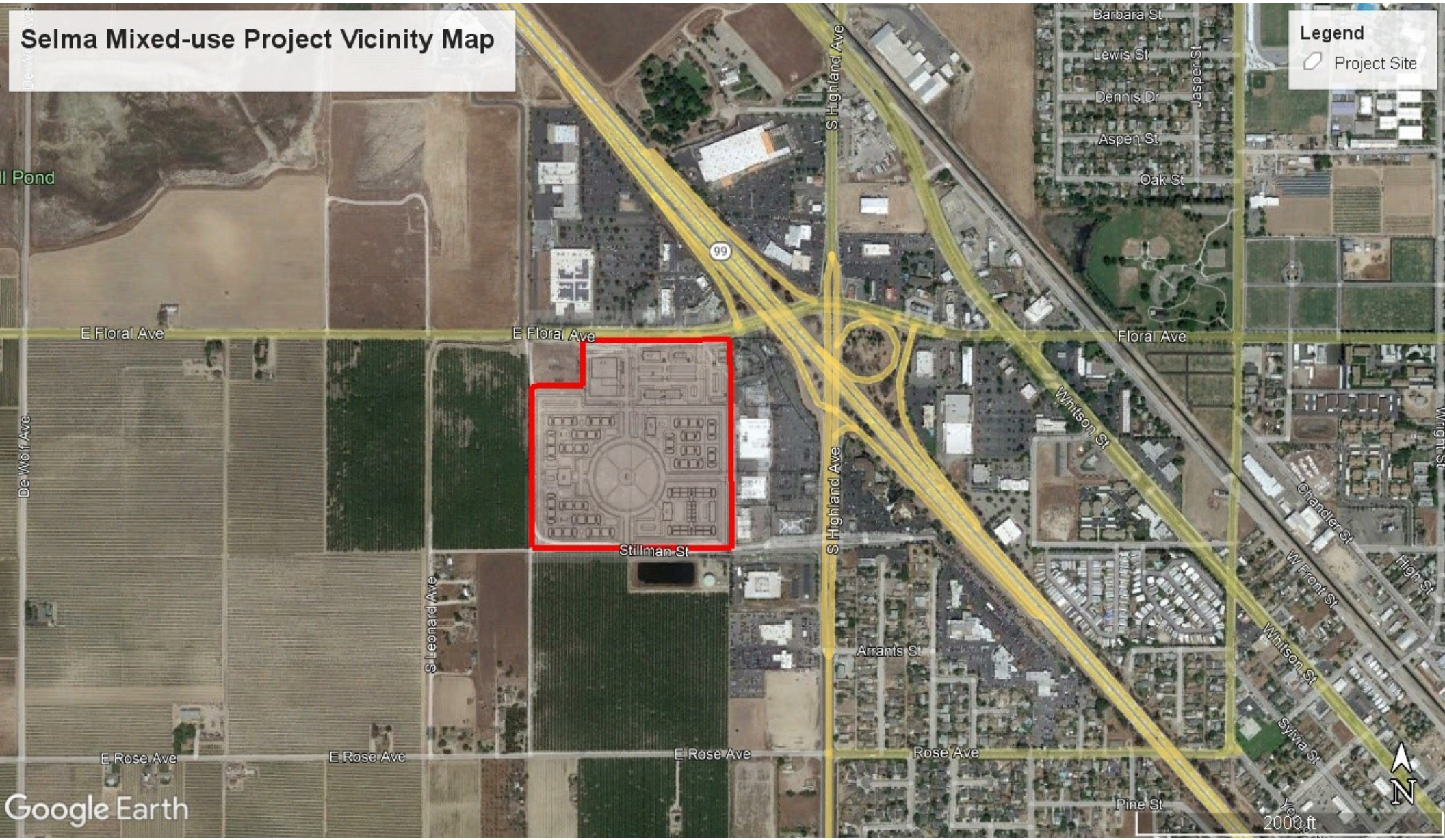
Selma Mixed-use Project Vicinity Map
Legend
Project Site
Barbara St
Lewis St
Dennis Dr
Aspen St
Oak St
Jasper St
S Highland Ave
99
E Floral Ave
E Floral Ave
Floral Ave
De Wolf Ave
Whitson St
Chandler St
W Front St
High St
Stillman St
S Leonard Ave
Arrants St
E Rose Ave
E Rose Ave
E Rose Ave
Rose Ave
Sylvia St
Pine St
Google Earth
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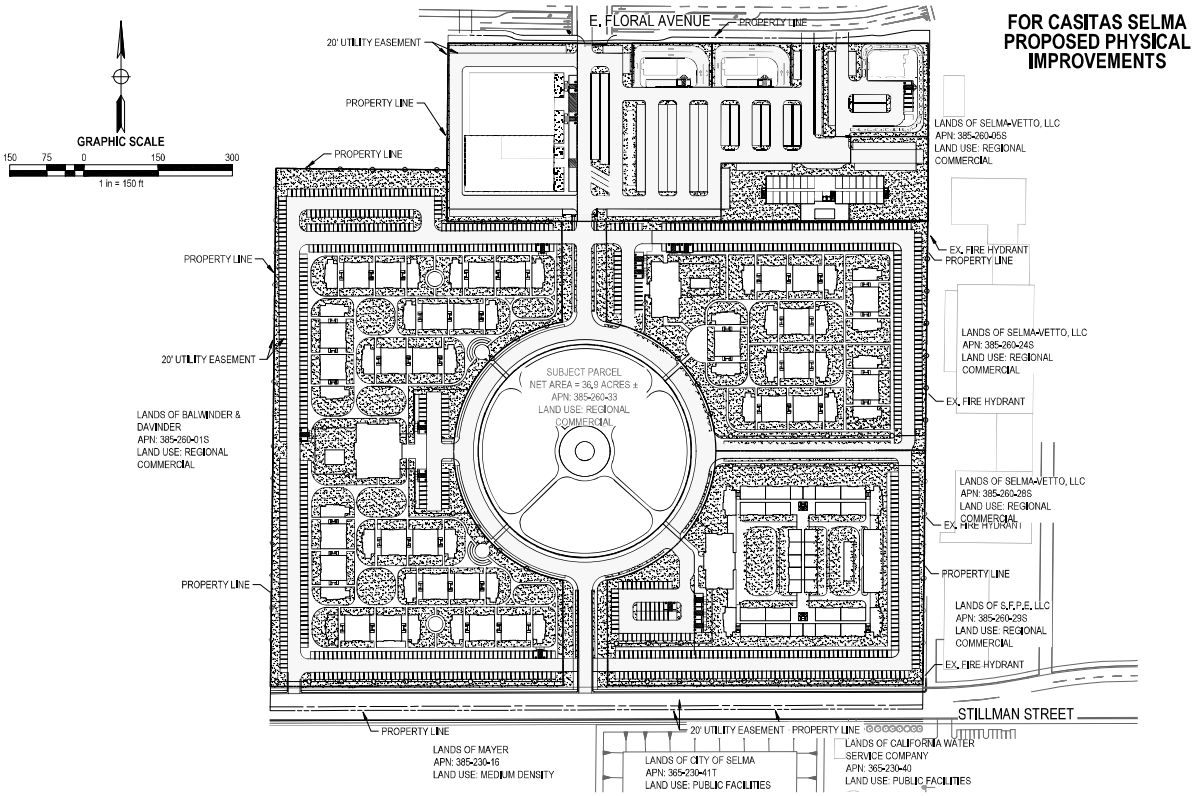
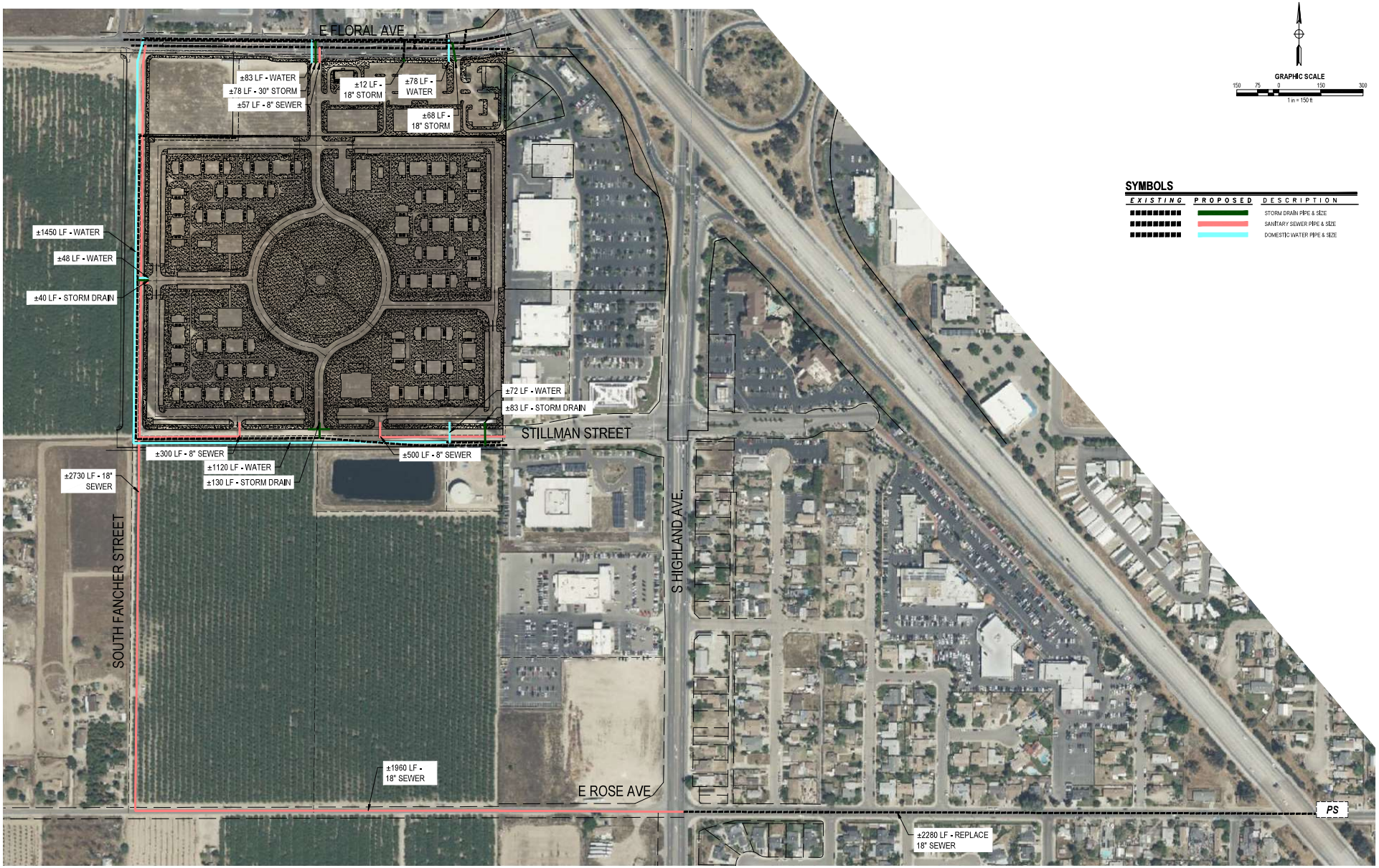

FOR CASITAS SELMA
PROPOSED PHYSICAL
IMPROVEMENTS
GRAPHIC SCALE
150 75 0 150 300
1 in = 150 ft
E. FLORAL AVENUE
PROPERTY LINE
20' UTILITY EASEMENT
PROPERTY LINE
PROPERTY LINE
LANDS OF SELMA-VETTO, LLC
APN: 385-260-06S
LAND USE: REGIONAL
COMMERCIAL
EX. FIRE HYDRANT
PROPERTY LINE
PROPERTY LINE
20' UTILITY EASEMENT
SUBJECT PARCEL
NET AREA = 36.9 ACRES ±
APN: 385-260-33
LAND USE: REGIONAL
COMMERCIAL
LANDS OF SELMA-VETTO, LLC
APN: 385-260-24S
LAND USE: REGIONAL
COMMERCIAL
EX. FIRE HYDRANT
LANDS OF BALWINDER &
DAVINDER
APN: 385-260-01S
LAND USE: REGIONAL
COMMERCIAL
LANDS OF SELMA-VETTO, LLC
APN: 385-260-28S
LAND USE: REGIONAL
COMMERCIAL
EX. FIRE HYDRANT
PROPERTY LINE
PROPERTY LINE
LANDS OF S.F.P.E. LLC
APN: 385-260-29S
LAND USE: REGIONAL
COMMERCIAL
EX. FIRE HYDRANT
STILLMAN STREET
PROPERTY LINE
20' UTILITY EASEMENT
PROPERTY LINE
LANDS OF MAYER
APN: 385-230-16
LAND USE: MEDIUM DENSITY
LANDS OF CITY OF SELMA
APN: 365-230-41T
LAND USE: PUBLIC FACILITIES
LANDS OF CALIFORNIA WATER
SERVICE COMPANY
APN: 365-230-40
LAND USE: PUBLIC FACILITIES



REVISIONS

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.D.	DATE
△					
△					
△					
△					

SCALE:
HORIZ. 1" = 150'
VERT. 1" =

BENCH MARK

COMPUTED
DESIGNED
DRAWN
PROJ. ENGR.

MORTON & PITALO, INC.
CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
Folsom • Fresno
7643 North Ingram Avenue, Suite #105
Fresno, CA 93711
phone: (559) 853-4505
web: www.mpengr.com

SELMA CASITAS
PRELIMINARY OFFSITE UTILITIES EXHIBIT
CITY OF SELMA, CALIFORNIA

DATE FEB. 26, 2024
SHEET 1 OF 1

JOB NO.

Selma Mixed-use Project Construction Assumptions

Construction Phase

Phase Name	Start Date	End Date	Num Days Week	Num Days
Project Construction				
Site Preparation	3/1/2024	4/11/2024	5	30
Grading	4/12/2024	7/25/2024	5	75
Building Construction	7/26/2024	5/27/2027	5	740
Paving	7/26/2024	10/10/2024	5	55
Architectural Coating	3/12/2027	5/27/2027	5	55
Off-site Pipeline Improvements				
Linear, Grubbing & Land Clearing	6/25/2024	7/4/2024	5	7
Linear, Grading & Excavation	7/5/2024	8/18/2024	5	32
Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	5	21
Linear, Paving	9/18/2024	10/3/2024	5	11

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Project Construction					
Site Preparation	Rubber Tired Dozers	3	8	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37
Grading	Excavators	2	8	36	0.38
Grading	Graders	1	8	148	0.41
Grading	Rubber Tired Dozers	1	8	367	0.40
Grading	Scrapers	2	8	423	0.48
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37
Building Construction	Cranes	1	7	367	0.29
Building Construction	Forklifts	3	8	82	0.20
Building Construction	Generator Sets	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	81	0.42
Paving	Paving Equipment	2	8	89	0.36
Paving	Rollers	2	8	36	0.38
Architectural Coating	Air Compressors	1	6	37	0.48
Off-site Pipeline Improvements					
Linear, Grubbing & Land Clearing	Crawler Tractors	1	8	87	0.43
Linear, Grubbing & Land Clearing	Excavators	1	8	36	0.38
Linear, Grubbing & Land Clearing	Signal Boards	2	8	6	0.82
Linear, Grading & Excavation	Crawler Tractors	1	8	87	0.43
Linear, Grading & Excavation	Excavators	1	8	36	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	1	8	150	0.36
Linear, Grading & Excavation	Signal Boards	2	8	6	0.82
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8	37	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	1	8	14	0.74
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	1	8	8	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	1	8	11	0.74
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	2	8	6	0.82
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	1	8	40	0.5
Linear, Paving	Pavers	1	8	81	0.42
Linear, Paving	Paving Equipment	1	8	89	0.36
Linear, Paving	Rollers	1	8	36	0.38
Linear, Paving	Signal Boards	2	8	6	0.82
Linear, Paving	Tractors/Loaders/Backhoes	1	8	84	0.37

Construction Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Project Construction						
Site Preparation	17.50	2.00	0.00	11.41	8.53	20.00
Grading	20.00	2.00	41.60	11.41	8.53	20.00
Building Construction	508.94	95.05	0.00	11.41	8.53	20.00
Paving	15.00	2.00	0.00	11.41	8.53	20.00
Architectural Coating	101.79	2.00	0.00	11.41	8.53	20.00
Off-site Pipeline Improvements						
Linear, Grubbing & Land Clearing	4.00	2.00	35.71	11.41	8.53	20.00
Linear, Grading & Excavation	4.00	2.00	0.00	11.41	8.53	20.00
Linear, Drainage, Utilities, & Sub-Grade	4.00	8.00	0.00	11.41	8.53	20.00
Linear, Paving	4.00	2.00	0.00	11.41	8.53	20.00

Selma Mixed-use Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Selma Mixed-use Project
Construction Start Date	8/1/2023
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	23.2
Location	36.574375, -119.633028
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2541
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Strip Mall	7.20	1000sqft	0.17	7,200	1,080	—	—	Strip Retail Plaza (Commercial Uses)
Fast Food Restaurant with Drive Thru	10.1	1000sqft	0.31	10,099	2,025	—	—	Fast-Food Restaurant with Drive-Through
Hotel	100	Room	3.33	145,200	21,780	—	—	Hotel
Apartments Low Rise	300	Dwelling Unit	11.2	318,000	72,919	—	960	Multifamily Housing
Retirement Community	120	Dwelling Unit	5.41	127,200	35,349	—	384	Senior Adult Housing
Apartments Low Rise	180	Dwelling Unit	7.00	190,800	45,738	—	576	Affordable Housing
City Park	3.57	Acre	3.57	0.00	23,326	23,326	—	—
Other Asphalt Surfaces	6.27	Acre	6.27	0.00	40,968	—	—	—
Parking Lot	1.31	Acre	1.31	0.00	8,560	—	—	—
Fast Food Restaurant w/o Drive Thru	7.20	1000sqft	0.17	7,200	1,080	—	—	Fast Casual Restaurant
Automobile Care Center	15.5	1000sqft	0.36	15,501	2,325	—	—	Quick Lubrication Vehicle Shop + Automated Car Wash

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.27	4.98	38.1	53.5	0.08	1.60	8.01	9.61	1.47	4.00	5.47	—	11,302	11,302	0.45	0.59	26.2	11,516
2025	3.92	3.47	15.2	40.1	0.04	0.47	4.95	5.42	0.43	1.16	1.60	—	9,450	9,450	0.24	0.56	24.0	9,648
2026	3.69	3.26	14.3	37.9	0.04	0.41	4.95	5.37	0.38	1.16	1.55	—	9,308	9,308	0.24	0.56	21.6	9,503
2027	3.95	93.3	14.7	41.6	0.04	0.39	5.97	6.36	0.36	1.38	1.74	—	10,218	10,218	0.25	0.58	22.3	10,418
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.97	4.66	36.1	46.4	0.06	1.60	8.01	9.61	1.47	4.00	5.47	—	10,761	10,761	0.35	0.59	0.68	10,947
2025	3.66	3.20	15.7	33.8	0.04	0.47	4.95	5.42	0.43	1.16	1.60	—	8,937	8,937	0.27	0.56	0.62	9,113
2026	3.35	3.03	14.8	32.1	0.04	0.41	4.95	5.37	0.38	1.16	1.55	—	8,807	8,807	0.26	0.56	0.56	8,983
2027	3.69	92.9	15.3	35.2	0.04	0.39	5.97	6.36	0.36	1.38	1.74	—	9,631	9,631	0.29	0.59	0.58	9,815
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.66	2.32	17.2	22.4	0.04	0.67	3.11	3.78	0.61	1.00	1.62	—	5,589	5,589	0.22	0.30	4.22	5,687
2025	2.63	2.31	11.0	24.8	0.03	0.33	3.48	3.81	0.31	0.82	1.13	—	6,487	6,487	0.18	0.40	7.39	6,619
2026	2.50	2.19	10.4	23.5	0.03	0.30	3.48	3.78	0.27	0.82	1.09	—	6,392	6,392	0.18	0.40	6.64	6,523
2027	1.00	14.4	4.16	9.74	0.01	0.11	1.55	1.66	0.10	0.36	0.46	—	2,683	2,683	0.07	0.16	2.59	2,736
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.48	0.42	3.13	4.08	0.01	0.12	0.57	0.69	0.11	0.18	0.29	—	925	925	0.04	0.05	0.70	941
2025	0.48	0.42	2.01	4.53	0.01	0.06	0.64	0.70	0.06	0.15	0.21	—	1,074	1,074	0.03	0.07	1.22	1,096
2026	0.46	0.40	1.90	4.30	0.01	0.05	0.64	0.69	0.05	0.15	0.20	—	1,058	1,058	0.03	0.07	1.10	1,080
2027	0.18	2.63	0.76	1.78	< 0.005	0.02	0.28	0.30	0.02	0.07	0.08	—	444	444	0.01	0.03	0.43	453

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	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716
Area	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	61.9	76.8	43.9	376	0.68	1.38	49.8	51.2	1.34	12.6	13.9	618	79,650	80,268	67.0	3.33	3,716	86,652
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Area	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	50.4	65.2	48.8	301	0.63	1.35	49.8	51.1	1.32	12.6	13.9	618	73,807	74,425	67.7	3.62	3,479	80,674
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	40.5	37.9	27.8	230	0.45	0.35	38.6	39.0	0.33	9.78	10.1	—	46,094	46,094	3.22	2.56	82.8	47,021
Area	2.46	21.2	1.32	21.2	0.01	0.11	—	0.11	0.10	—	0.10	0.00	1,480	1,480	0.03	< 0.005	—	1,482
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	43.7	59.4	35.5	255	0.50	0.96	38.6	39.6	0.94	9.78	10.7	618	58,323	58,942	66.4	2.80	3,556	64,991

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785
Area	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245
Energy	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,766	1,766	0.19	0.01	—	1,775
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7
Waste	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	7.97	10.8	6.48	46.5	0.09	0.18	7.05	7.22	0.17	1.78	1.96	102	9,656	9,758	11.0	0.46	589	10,760

3. Construction Emissions Details

3.1. Site Preparation (2024) - 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	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.96	2.71	< 0.005	0.13	—	0.13	0.12	—	0.12	—	435	435	0.02	< 0.005	—	437
Dust From Material Movement	—	—	—	—	—	—	0.63	0.63	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.54	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.1	72.1	< 0.005	< 0.005	—	72.3
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.98	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	159	159	0.01	0.01	0.64	162
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.07	0.07	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	< 0.005	0.01	0.02	143
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.6	54.6	< 0.005	0.01	< 0.005	57.0
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	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.02	12.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.48	4.48	< 0.005	< 0.005	0.01	4.69
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	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.78
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - 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	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.24	3.24	—	1.24	1.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	0.72	7.05	6.20	0.01	0.30	—	0.30	0.27	—	0.27	—	1,356	1,356	0.05	0.01	—	1,360
Dust From Material Movement	—	—	—	—	—	—	0.66	0.66	—	0.25	0.25	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.29	1.13	< 0.005	0.05	—	0.05	0.05	—	0.05	—	224	224	0.01	< 0.005	—	225
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	1.11	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	182	182	0.01	0.01	0.73	185
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
Hauling	0.14	0.07	3.60	0.86	0.02	0.06	0.77	0.83	0.06	0.21	0.27	—	2,971	2,971	0.06	0.47	7.15	3,121
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	34.3	34.3	< 0.005	< 0.005	0.07	34.8
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.7

Hauling	0.03	0.01	0.77	0.18	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	611	611	0.01	0.10	0.63	641
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.68	5.68	< 0.005	< 0.005	0.01	5.77
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.94
Hauling	0.01	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	101	101	< 0.005	0.02	0.10	106

3.5. Building Construction (2024) - 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	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.37	3.49	4.08	0.01	0.15	—	0.15	0.14	—	0.14	—	746	746	0.03	0.01	—	749
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.77
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.07	0.64	0.74	< 0.005	0.03	—	0.03	0.03	—	0.03	—	124	124	0.01	< 0.005	—	124
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.40	1.68	28.3	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,614	4,614	0.23	0.17	18.6	4,690
Vendor	0.16	0.09	3.29	1.19	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,577	2,577	0.05	0.37	6.91	2,696
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	2.30	2.10	2.14	21.4	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,086	4,086	0.13	0.17	0.48	4,142
Vendor	0.15	0.08	3.52	1.22	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,579	2,579	0.05	0.37	0.18	2,692
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	0.72	0.67	0.57	6.96	0.00	0.00	1.25	1.25	0.00	0.29	0.29	—	1,318	1,318	0.07	0.05	2.51	1,338
Vendor	0.05	0.03	1.07	0.37	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	802	802	0.02	0.12	0.93	838
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	0.13	0.12	0.10	1.27	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	218	218	0.01	0.01	0.42	222
Vendor	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	133	133	< 0.005	0.02	0.15	139
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. Building Construction (2025) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.38	5.38	< 0.005	< 0.005	< 0.005	5.64
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.43	2.26	1.53	25.9	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,516	4,516	0.09	0.17	17.1	4,586
Vendor	0.14	0.09	3.15	1.11	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,531	2,531	0.05	0.37	6.89	2,650
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	2.18	1.99	1.85	19.6	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,001	4,001	0.12	0.17	0.44	4,056
Vendor	0.13	0.08	3.37	1.16	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,533	2,533	0.05	0.37	0.18	2,646
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	1.57	1.45	1.20	14.7	0.00	0.00	2.88	2.88	0.00	0.67	0.67	—	2,962	2,962	0.08	0.12	5.27	3,006
Vendor	0.10	0.06	2.34	0.81	0.01	0.03	0.48	0.50	0.03	0.13	0.16	—	1,809	1,809	0.03	0.27	2.12	1,891
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	0.29	0.26	0.22	2.68	0.00	0.00	0.53	0.53	0.00	0.12	0.12	—	490	490	0.01	0.02	0.87	498
Vendor	0.02	0.01	0.43	0.15	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	299	299	0.01	0.04	0.35	313
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (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	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.18	5.18	< 0.005	< 0.005	< 0.005	5.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.27	2.10	1.38	23.8	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,422	4,422	0.09	0.17	15.5	4,491
Vendor	0.14	0.09	3.02	1.07	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,483	2,483	0.05	0.37	6.07	2,601
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	1.93	1.88	1.70	18.0	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	3,919	3,919	0.11	0.17	0.40	3,974
Vendor	0.13	0.08	3.23	1.11	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,486	2,486	0.05	0.37	0.16	2,598
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	1.49	1.37	1.09	13.5	0.00	0.00	2.88	2.88	0.00	0.67	0.67	—	2,901	2,901	0.07	0.12	4.77	2,945
Vendor	0.10	0.06	2.25	0.78	0.01	0.03	0.48	0.50	0.03	0.13	0.16	—	1,774	1,774	0.03	0.27	1.87	1,856

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	0.27	0.25	0.20	2.46	0.00	0.00	0.53	0.53	0.00	0.12	0.12	—	480	480	0.01	0.02	0.79	488
Vendor	0.02	0.01	0.41	0.14	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	294	294	0.01	0.04	0.31	307
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.70	3.72	0.01	0.10	—	0.10	0.09	—	0.09	—	690	690	0.03	0.01	—	692
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	0.01	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.54
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.05	0.49	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	114	114	< 0.005	< 0.005	—	115
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.26
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.03	1.99	1.23	22.0	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	4,330	4,330	0.08	0.16	14.0	4,394
Vendor	0.14	0.09	2.90	1.03	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,430	2,430	0.05	0.35	5.34	2,542
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	1.82	1.65	1.54	16.6	0.00	0.00	4.09	4.09	0.00	0.96	0.96	—	3,839	3,839	0.11	0.17	0.36	3,893
Vendor	0.13	0.08	3.10	1.07	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,432	2,432	0.05	0.35	0.14	2,539
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	0.53	0.52	0.40	5.01	0.00	0.00	1.16	1.16	0.00	0.27	0.27	—	1,144	1,144	0.03	0.05	1.74	1,162
Vendor	0.04	0.02	0.87	0.30	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	699	699	0.01	0.10	0.66	731
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	0.10	0.09	0.07	0.91	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	0.01	0.29	192
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.11	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2024) - 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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.18	1.51	< 0.005	0.06	—	0.06	0.05	—	0.05	—	228	228	0.01	< 0.005	—	229
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.82	0.82	< 0.005	< 0.005	< 0.005	0.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.84	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	136	136	0.01	0.01	0.55	139
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.63	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	0.01	122
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.6	54.6	< 0.005	0.01	< 0.005	57.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.04	19.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.22	8.22	< 0.005	< 0.005	0.01	8.59
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

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

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

Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	89.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	89.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	13.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.40	0.25	4.40	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	866	866	0.02	0.03	2.80	879
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	51.4	51.4	< 0.005	0.01	0.11	53.8
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	0.36	0.33	0.31	3.33	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	768	768	0.02	0.03	0.07	779
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	51.5	51.5	< 0.005	0.01	< 0.005	53.7
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	0.04	0.52	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	0.01	0.18	122
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.75	7.75	< 0.005	< 0.005	0.01	8.10
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	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.8	19.8	< 0.005	< 0.005	0.03	20.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.65	1.58	0.86	8.65	0.02	0.01	1.27	1.29	0.01	0.32	0.33	—	1,614	1,614	0.09	0.08	6.42	1,645
Fast Food Restaurant with Drive Thru	24.7	23.8	9.78	94.3	0.14	0.12	11.2	11.3	0.11	2.83	2.94	—	14,654	14,654	1.26	0.89	56.3	15,006
Hotel	3.69	3.45	3.04	25.8	0.06	0.04	4.36	4.40	0.04	1.10	1.15	—	5,693	5,693	0.25	0.28	22.4	5,805
Apartments Low Rise	16.9	15.5	12.4	135	0.26	0.17	22.3	22.5	0.16	5.63	5.79	—	27,219	27,219	1.48	1.29	105	27,745
Retirement Community	1.57	1.44	1.15	12.6	0.02	0.02	2.07	2.09	0.01	0.52	0.54	—	2,531	2,531	0.14	0.12	9.72	2,579
City Park	0.04	0.03	0.03	0.25	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	55.2	55.2	< 0.005	< 0.005	0.22	56.2
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
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
Fast Food Restaurant w/o Drive Thru	3.21	3.01	2.17	22.5	0.05	0.03	3.76	3.79	0.03	0.95	0.98	—	4,673	4,673	0.21	0.19	18.9	4,755
Automobile Care Center	4.14	3.88	2.79	28.9	0.06	0.04	4.84	4.88	0.04	1.23	1.27	—	6,020	6,020	0.27	0.25	24.4	6,125
Total	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	1.46	1.37	1.00	8.05	0.01	0.01	1.27	1.29	0.01	0.32	0.33	—	1,471	1,471	0.12	0.08	0.17	1,500
Fast Food Restaurant with Drive Thru	21.6	20.5	11.4	97.4	0.13	0.12	11.2	11.3	0.11	2.83	2.94	—	13,423	13,423	1.60	0.97	1.46	13,755
Hotel	3.29	3.03	3.49	22.2	0.05	0.05	4.36	4.40	0.04	1.10	1.15	—	5,216	5,216	0.29	0.30	0.58	5,313
Apartments Low Rise	14.8	13.3	14.5	112	0.24	0.17	22.3	22.5	0.16	5.63	5.79	—	24,568	24,568	1.69	1.40	2.71	25,030
Retirement Community	1.38	1.24	1.34	10.4	0.02	0.02	2.07	2.09	0.02	0.52	0.54	—	2,284	2,284	0.16	0.13	0.25	2,327
City Park	0.03	0.03	0.03	0.22	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	50.5	50.5	< 0.005	< 0.005	0.01	51.5
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
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
Fast Food Restaurant w/o Drive Thru	2.86	2.64	2.53	19.3	0.04	0.03	3.76	3.79	0.03	0.95	0.98	—	4,251	4,251	0.24	0.21	0.49	4,321
Automobile Care Center	3.68	3.41	3.26	24.9	0.05	0.04	4.84	4.88	0.04	1.23	1.27	—	5,477	5,477	0.31	0.27	0.63	5,566
Total	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.27	0.25	0.17	1.42	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	250	250	0.02	0.01	0.46	255

Fast Food Restaurant with Drive Thru	3.18	3.04	1.53	13.1	0.02	0.02	1.60	1.61	0.02	0.40	0.42	—	1,810	1,810	0.19	0.12	3.20	1,854
Hotel	0.58	0.54	0.57	3.88	0.01	0.01	0.75	0.76	0.01	0.19	0.20	—	846	846	0.04	0.05	1.53	862
Apartments Low Rise	1.96	1.78	1.74	14.7	0.03	0.02	2.85	2.87	0.02	0.72	0.74	—	2,981	2,981	0.19	0.16	5.32	3,038
Retirement Community	0.24	0.22	0.22	1.84	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	372	372	0.02	0.02	0.66	379
City Park	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.51	4.51	< 0.005	< 0.005	0.01	4.59
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
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
Fast Food Restaurant w/o Drive Thru	0.53	0.49	0.43	3.53	0.01	0.01	0.68	0.68	0.01	0.17	0.18	—	724	724	0.04	0.03	1.35	736
Automobile Care Center	0.63	0.59	0.42	3.50	0.01	0.01	0.59	0.60	0.01	0.15	0.16	—	644	644	0.04	0.03	1.19	656
Total	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.03	7.03	< 0.005	< 0.005	—	7.10

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.01	< 0.005	—	42.2
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	85.6	85.6	0.01	< 0.005	—	86.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.04	< 0.005	—	220
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	54.6	54.6	0.01	< 0.005	—	55.1
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.63	4.63	< 0.005	< 0.005	—	4.67
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	29.8	29.8	< 0.005	< 0.005	—	30.1
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	459	459	0.07	0.01	—	463

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.74	3.74	< 0.005	< 0.005	—	3.75

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.0	67.0	0.01	< 0.005	—	67.2
Hotel	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Apartments Low Rise	0.07	0.04	0.61	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	704	704	0.06	< 0.005	—	706
Retirement Community	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Automobile Care Center	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Total	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,308	1,308	0.12	< 0.005	—	1,311

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.71	4.43	0.41	42.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
Total	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	235	235	< 0.005	< 0.005	—	235
Consumer Products	—	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.42	0.40	0.04	3.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.1	10.1	< 0.005	< 0.005	—	10.2
Total	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.17	0.20	0.37	0.02	< 0.005	—	0.93
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.97	1.12	2.10	0.10	< 0.005	—	5.31
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.80	0.99	1.80	0.08	< 0.005	—	4.45
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.14	7.50	13.6	0.63	0.02	—	33.9
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	1.53	1.90	3.43	0.16	< 0.005	—	8.49
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	< 0.005	< 0.005	—	0.13
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	< 0.005	< 0.005	—	0.03
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.69	0.80	1.49	0.07	< 0.005	—	3.78

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	0.46	0.54	1.00	0.05	< 0.005	—	2.53
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.67	0.00	0.67	0.07	0.00	—	2.36
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.3
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.89	0.00	4.89	0.49	0.00	—	17.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	—	111
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	31.3	0.00	31.3	3.13	0.00	—	109
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.40	0.00	7.40	0.74	0.00	—	25.9

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.61	2.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.86	1.86
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	532	532
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/1/2024	4/11/2024	5.00	30.0	—
Grading	Grading	4/12/2024	7/25/2024	5.00	75.0	—

Building Construction	Building Construction	7/26/2024	5/27/2027	5.00	740	—
Paving	Paving	7/26/2024	10/10/2024	5.00	55.0	—
Architectural Coating	Architectural Coating	3/12/2027	5/27/2027	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.4	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	8.53	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	2.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.4	LDA,LDT1,LDT2
Grading	Vendor	2.00	8.53	HHDT,MHDT
Grading	Hauling	41.7	20.0	HHDT
Grading	Onsite truck	2.00	0.25	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	508	11.4	LDA,LDT1,LDT2
Building Construction	Vendor	94.5	8.53	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	2.00	0.25	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.4	LDA,LDT1,LDT2
Paving	Vendor	2.00	8.53	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	2.00	0.25	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	102	11.4	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	8.53	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	2.00	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	1,287,900	429,300	277,800	92,600	19,811

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	45.0	0.00	—
Grading	12,500	12,500	225	0.00	—
Paving	0.00	0.00	0.00	0.00	7.58

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Strip Mall	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Hotel	0.00	0%
Apartments Low Rise	—	0%
Retirement Community	—	0%
Apartments Low Rise	—	0%
City Park	0.00	0%
Other Asphalt Surfaces	6.27	100%
Parking Lot	1.31	100%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Automobile Care Center	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
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	150
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	15
Non-Catalytic Wood Stoves	15
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0
Retirement Community	—
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1287900	429,300	277,800	92,600	19,811

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	76,033	204	0.0330	0.0040	70,505
Fast Food Restaurant with Drive Thru	451,255	204	0.0330	0.0040	1,262,715
Hotel	924,632	204	0.0330	0.0040	5,188,239
Apartments Low Rise	1,474,469	204	0.0330	0.0040	8,294,843
Retirement Community	589,787	204	0.0330	0.0040	3,317,937
Apartments Low Rise	884,681	204	0.0330	0.0040	4,976,906
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	49,988	204	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	321,718	204	0.0330	0.0040	900,243
Automobile Care Center	183,906	204	0.0330	0.0040	635,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	533,322	14,825
Fast Food Restaurant with Drive Thru	3,065,387	27,798
Hotel	2,536,677	298,979
Apartments Low Rise	12,088,800	1,223,421
Retirement Community	4,835,520	593,074
Apartments Low Rise	7,253,280	767,379
City Park	0.00	711,569
Other Asphalt Surfaces	0.00	562,379
Parking Lot	0.00	117,499
Fast Food Restaurant w/o Drive Thru	2,185,443	14,825
Automobile Care Center	1,458,351	31,918

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	7.56	—
Fast Food Restaurant with Drive Thru	116	—
Hotel	54.8	—
Apartments Low Rise	222	—
Retirement Community	351	—
Apartments Low Rise	133	—
City Park	0.31	—

Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Fast Food Restaurant w/o Drive Thru	82.9	—
Automobile Care Center	59.2	—

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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 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	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	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

5.16. 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

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. 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)

8. User Changes to Default Data

Screen	Justification
Land Use	Land use development to be evaluated, consistent with the project description (current as of January 2024) and 2023 traffic impact analysis.
Construction: Construction Phases	No demolition. CalEEMod default durations used, as construction schedule and phasing will be based on market conditions.
Construction: Dust From Material Movement	Site is expected to balance; however, up to 25,000 total cubic yards of cut or fill may be required and is included in this analysis.
Operations: Vehicle Data	Trip rates from ITE Trip Generation Manual, 11th Edition - based on project-specific Traffic Impact Analysis prepared by JLB Traffic (report dated October 10, 2023). Average pass-by rates for the shopping plaza from the ITE Trip Generation Manual, 11th Edition applied to the strip mall land use.
Operations: Fleet Mix	SJVAPCD-approved residential fleet mix for the 2024 operational year applied to residential uses. Adjusted fleet mixes for fast food (including fast casual restaurant), automobile care center, and strip mall land uses (see supporting information).
Operations: Hearths	No woodburning fireplaces or wood stoves

Selma Mixed-use Project - Mitigated Operations Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Selma Mixed-use Project - Mitigated Operations
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	23.2
Location	36.574375, -119.633028
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2541
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Strip Mall	7.20	1000sqft	0.17	7,200	1,080	—	—	Strip Retail Plaza (Commercial Uses)

Fast Food Restaurant with Drive Thru	10.1	1000sqft	0.31	10,099	2,025	—	—	Fast-Food Restaurant with Drive-Through
Hotel	100	Room	3.33	145,200	21,780	—	—	Hotel
Apartments Low Rise	300	Dwelling Unit	11.2	318,000	72,919	—	960	Multifamily Housing
Retirement Community	120	Dwelling Unit	5.41	127,200	35,349	—	384	Senior Adult Housing
Apartments Low Rise	180	Dwelling Unit	7.00	190,800	45,738	—	576	Affordable Housing
City Park	3.57	Acre	3.57	0.00	23,326	23,326	—	—
Other Asphalt Surfaces	6.27	Acre	6.27	0.00	40,968	—	—	—
Parking Lot	1.31	Acre	1.31	0.00	8,560	—	—	—
Fast Food Restaurant w/o Drive Thru	7.20	1000sqft	0.17	7,200	1,080	—	—	Fast Casual Restaurant
Automobile Care Center	15.5	1000sqft	0.36	15,501	2,325	—	—	Quick Lubrication Vehicle Shop + Automated Car Wash

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	AS-2	Use Low-VOC Paints
Area Sources	LL-3*	Electric Yard Equipment Compatibility

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

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	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716
Area	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	61.9	76.8	43.9	376	0.68	1.38	49.8	51.2	1.34	12.6	13.9	618	79,650	80,268	67.0	3.33	3,716	86,652
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Area	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	50.4	65.2	48.8	301	0.63	1.35	49.8	51.1	1.32	12.6	13.9	618	73,807	74,425	67.7	3.62	3,479	80,674
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	40.5	37.9	27.8	230	0.45	0.35	38.6	39.0	0.33	9.78	10.1	—	46,094	46,094	3.22	2.56	82.8	47,021
Area	2.46	21.2	1.32	21.2	0.01	0.11	—	0.11	0.10	—	0.10	0.00	1,480	1,480	0.03	< 0.005	—	1,482
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473

Total	43.7	59.4	35.5	255	0.50	0.96	38.6	39.6	0.94	9.78	10.7	618	58,323	58,942	66.4	2.80	3,556	64,991
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785
Area	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245
Energy	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,766	1,766	0.19	0.01	—	1,775
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7
Waste	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	7.97	10.8	6.48	46.5	0.09	0.18	7.05	7.22	0.17	1.78	1.96	102	9,656	9,758	11.0	0.46	589	10,760

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	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716
Area	5.30	23.5	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	61.9	76.6	43.9	376	0.68	1.38	49.8	51.2	1.34	12.6	13.9	618	79,650	80,268	67.0	3.33	3,716	86,652
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Area	0.58	19.1	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718

Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	50.4	65.0	48.8	301	0.63	1.35	49.8	51.1	1.32	12.6	13.9	618	73,807	74,425	67.7	3.62	3,479	80,674
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	40.5	37.9	27.8	230	0.45	0.35	38.6	39.0	0.33	9.78	10.1	—	46,094	46,094	3.22	2.56	82.8	47,021
Area	2.46	21.0	1.32	21.2	0.01	0.11	—	0.11	0.10	—	0.10	0.00	1,480	1,480	0.03	< 0.005	—	1,482
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	43.7	59.2	35.5	255	0.50	0.96	38.6	39.6	0.94	9.78	10.7	618	58,323	58,942	66.4	2.80	3,556	64,991
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785
Area	0.45	3.84	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245
Energy	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,766	1,766	0.19	0.01	—	1,775
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7
Waste	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	7.97	10.8	6.48	46.5	0.09	0.18	7.05	7.22	0.17	1.78	1.96	102	9,656	9,758	11.0	0.46	589	10,760

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.65	1.58	0.86	8.65	0.02	0.01	1.27	1.29	0.01	0.32	0.33	—	1,614	1,614	0.09	0.08	6.42	1,645
Fast Food Restaurant with Drive Thru	24.7	23.8	9.78	94.3	0.14	0.12	11.2	11.3	0.11	2.83	2.94	—	14,654	14,654	1.26	0.89	56.3	15,006
Hotel	3.69	3.45	3.04	25.8	0.06	0.04	4.36	4.40	0.04	1.10	1.15	—	5,693	5,693	0.25	0.28	22.4	5,805
Apartments Low Rise	16.9	15.5	12.4	135	0.26	0.17	22.3	22.5	0.16	5.63	5.79	—	27,219	27,219	1.48	1.29	105	27,745
Retirement Community	1.57	1.44	1.15	12.6	0.02	0.02	2.07	2.09	0.01	0.52	0.54	—	2,531	2,531	0.14	0.12	9.72	2,579
City Park	0.04	0.03	0.03	0.25	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	55.2	55.2	< 0.005	< 0.005	0.22	56.2
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
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
Fast Food Restaurant w/o Drive Thru	3.21	3.01	2.17	22.5	0.05	0.03	3.76	3.79	0.03	0.95	0.98	—	4,673	4,673	0.21	0.19	18.9	4,755
Automobile Care Center	4.14	3.88	2.79	28.9	0.06	0.04	4.84	4.88	0.04	1.23	1.27	—	6,020	6,020	0.27	0.25	24.4	6,125
Total	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.46	1.37	1.00	8.05	0.01	0.01	1.27	1.29	0.01	0.32	0.33	—	1,471	1,471	0.12	0.08	0.17	1,500
Fast Food Restaurant with Drive Thru	21.6	20.5	11.4	97.4	0.13	0.12	11.2	11.3	0.11	2.83	2.94	—	13,423	13,423	1.60	0.97	1.46	13,755
Hotel	3.29	3.03	3.49	22.2	0.05	0.05	4.36	4.40	0.04	1.10	1.15	—	5,216	5,216	0.29	0.30	0.58	5,313
Apartments Low Rise	14.8	13.3	14.5	112	0.24	0.17	22.3	22.5	0.16	5.63	5.79	—	24,568	24,568	1.69	1.40	2.71	25,030
Retirement Community	1.38	1.24	1.34	10.4	0.02	0.02	2.07	2.09	0.02	0.52	0.54	—	2,284	2,284	0.16	0.13	0.25	2,327
City Park	0.03	0.03	0.03	0.22	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	50.5	50.5	< 0.005	< 0.005	0.01	51.5
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
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
Fast Food Restaurant w/o Drive Thru	2.86	2.64	2.53	19.3	0.04	0.03	3.76	3.79	0.03	0.95	0.98	—	4,251	4,251	0.24	0.21	0.49	4,321
Automobile Care Center	3.68	3.41	3.26	24.9	0.05	0.04	4.84	4.88	0.04	1.23	1.27	—	5,477	5,477	0.31	0.27	0.63	5,566
Total	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.27	0.25	0.17	1.42	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	250	250	0.02	0.01	0.46	255

Fast Food Restaurant with Drive Thru	3.18	3.04	1.53	13.1	0.02	0.02	1.60	1.61	0.02	0.40	0.42	—	1,810	1,810	0.19	0.12	3.20	1,854
Hotel	0.58	0.54	0.57	3.88	0.01	0.01	0.75	0.76	0.01	0.19	0.20	—	846	846	0.04	0.05	1.53	862
Apartments Low Rise	1.96	1.78	1.74	14.7	0.03	0.02	2.85	2.87	0.02	0.72	0.74	—	2,981	2,981	0.19	0.16	5.32	3,038
Retirement Community	0.24	0.22	0.22	1.84	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	372	372	0.02	0.02	0.66	379
City Park	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.51	4.51	< 0.005	< 0.005	0.01	4.59
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
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
Fast Food Restaurant w/o Drive Thru	0.53	0.49	0.43	3.53	0.01	0.01	0.68	0.68	0.01	0.17	0.18	—	724	724	0.04	0.03	1.35	736
Automobile Care Center	0.63	0.59	0.42	3.50	0.01	0.01	0.59	0.60	0.01	0.15	0.16	—	644	644	0.04	0.03	1.19	656
Total	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.65	1.58	0.86	8.65	0.02	0.01	1.27	1.29	0.01	0.32	0.33	—	1,614	1,614	0.09	0.08	6.42	1,645
Fast Food Restaurant with Drive Thru	24.7	23.8	9.78	94.3	0.14	0.12	11.2	11.3	0.11	2.83	2.94	—	14,654	14,654	1.26	0.89	56.3	15,006
Hotel	3.69	3.45	3.04	25.8	0.06	0.04	4.36	4.40	0.04	1.10	1.15	—	5,693	5,693	0.25	0.28	22.4	5,805
Apartments Low Rise	16.9	15.5	12.4	135	0.26	0.17	22.3	22.5	0.16	5.63	5.79	—	27,219	27,219	1.48	1.29	105	27,745
Retirement Community	1.57	1.44	1.15	12.6	0.02	0.02	2.07	2.09	0.01	0.52	0.54	—	2,531	2,531	0.14	0.12	9.72	2,579
City Park	0.04	0.03	0.03	0.25	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	55.2	55.2	< 0.005	< 0.005	0.22	56.2
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
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
Fast Food Restaurant w/o Drive Thru	3.21	3.01	2.17	22.5	0.05	0.03	3.76	3.79	0.03	0.95	0.98	—	4,673	4,673	0.21	0.19	18.9	4,755
Automobile Care Center	4.14	3.88	2.79	28.9	0.06	0.04	4.84	4.88	0.04	1.23	1.27	—	6,020	6,020	0.27	0.25	24.4	6,125
Total	55.9	52.7	32.2	328	0.61	0.44	49.8	50.2	0.41	12.6	13.0	—	62,460	62,460	3.70	3.09	243	63,716
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	1.46	1.37	1.00	8.05	0.01	0.01	1.27	1.29	0.01	0.32	0.33	—	1,471	1,471	0.12	0.08	0.17	1,500
Fast Food Restaurant with Drive Thru	21.6	20.5	11.4	97.4	0.13	0.12	11.2	11.3	0.11	2.83	2.94	—	13,423	13,423	1.60	0.97	1.46	13,755
Hotel	3.29	3.03	3.49	22.2	0.05	0.05	4.36	4.40	0.04	1.10	1.15	—	5,216	5,216	0.29	0.30	0.58	5,313
Apartments Low Rise	14.8	13.3	14.5	112	0.24	0.17	22.3	22.5	0.16	5.63	5.79	—	24,568	24,568	1.69	1.40	2.71	25,030
Retirement Community	1.38	1.24	1.34	10.4	0.02	0.02	2.07	2.09	0.02	0.52	0.54	—	2,284	2,284	0.16	0.13	0.25	2,327
City Park	0.03	0.03	0.03	0.22	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	50.5	50.5	< 0.005	< 0.005	0.01	51.5
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
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
Fast Food Restaurant w/o Drive Thru	2.86	2.64	2.53	19.3	0.04	0.03	3.76	3.79	0.03	0.95	0.98	—	4,251	4,251	0.24	0.21	0.49	4,321
Automobile Care Center	3.68	3.41	3.26	24.9	0.05	0.04	4.84	4.88	0.04	1.23	1.27	—	5,477	5,477	0.31	0.27	0.63	5,566
Total	49.0	45.6	37.5	295	0.55	0.44	49.8	50.2	0.42	12.6	13.0	—	56,740	56,740	4.40	3.38	6.30	57,863
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.27	0.25	0.17	1.42	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	250	250	0.02	0.01	0.46	255

Fast Food Restaurant with Drive Thru	3.18	3.04	1.53	13.1	0.02	0.02	1.60	1.61	0.02	0.40	0.42	—	1,810	1,810	0.19	0.12	3.20	1,854
Hotel	0.58	0.54	0.57	3.88	0.01	0.01	0.75	0.76	0.01	0.19	0.20	—	846	846	0.04	0.05	1.53	862
Apartments Low Rise	1.96	1.78	1.74	14.7	0.03	0.02	2.85	2.87	0.02	0.72	0.74	—	2,981	2,981	0.19	0.16	5.32	3,038
Retirement Community	0.24	0.22	0.22	1.84	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	372	372	0.02	0.02	0.66	379
City Park	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.51	4.51	< 0.005	< 0.005	0.01	4.59
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
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
Fast Food Restaurant w/o Drive Thru	0.53	0.49	0.43	3.53	0.01	0.01	0.68	0.68	0.01	0.17	0.18	—	724	724	0.04	0.03	1.35	736
Automobile Care Center	0.63	0.59	0.42	3.50	0.01	0.01	0.59	0.60	0.01	0.15	0.16	—	644	644	0.04	0.03	1.19	656
Total	7.39	6.91	5.08	42.0	0.08	0.06	7.05	7.11	0.06	1.78	1.84	—	7,631	7,631	0.53	0.42	13.7	7,785

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.03	7.03	< 0.005	< 0.005	—	7.10

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.01	< 0.005	—	42.2
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	85.6	85.6	0.01	< 0.005	—	86.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.04	< 0.005	—	220
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	54.6	54.6	0.01	< 0.005	—	55.1
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.63	4.63	< 0.005	< 0.005	—	4.67
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	29.8	29.8	< 0.005	< 0.005	—	30.1
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	459	459	0.07	0.01	—	463

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.03	7.03	< 0.005	< 0.005	—	7.10

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.01	< 0.005	—	42.2
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	85.6	85.6	0.01	< 0.005	—	86.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.04	< 0.005	—	220
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	54.6	54.6	0.01	< 0.005	—	55.1
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.63	4.63	< 0.005	< 0.005	—	4.67
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	29.8	29.8	< 0.005	< 0.005	—	30.1
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	459	459	0.07	0.01	—	463

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.74	3.74	< 0.005	< 0.005	—	3.75

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.0	67.0	0.01	< 0.005	—	67.2
Hotel	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Apartments Low Rise	0.07	0.04	0.61	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	704	704	0.06	< 0.005	—	706
Retirement Community	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Automobile Care Center	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Total	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,308	1,308	0.12	< 0.005	—	1,311

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.74	3.74	< 0.005	< 0.005	—	3.75

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.0	67.0	0.01	< 0.005	—	67.2
Hotel	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Apartments Low Rise	0.07	0.04	0.61	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	704	704	0.06	< 0.005	—	706
Retirement Community	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Automobile Care Center	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Total	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,308	1,308	0.12	< 0.005	—	1,311

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.71	4.43	0.41	42.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
Total	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	235	235	< 0.005	< 0.005	—	235
Consumer Products	—	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.42	0.40	0.04	3.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.1	10.1	< 0.005	< 0.005	—	10.2
Total	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.71	4.43	0.41	42.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
Total	5.30	23.5	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.58	19.1	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	235	235	< 0.005	< 0.005	—	235
Consumer Products	—	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.42	0.40	0.04	3.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.1	10.1	< 0.005	< 0.005	—	10.2
Total	0.45	3.84	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205

Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.17	0.20	0.37	0.02	< 0.005	—	0.93
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.97	1.12	2.10	0.10	< 0.005	—	5.31
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.80	0.99	1.80	0.08	< 0.005	—	4.45
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.14	7.50	13.6	0.63	0.02	—	33.9
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	1.53	1.90	3.43	0.16	< 0.005	—	8.49
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	< 0.005	< 0.005	—	0.13
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	< 0.005	< 0.005	—	0.03

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.69	0.80	1.49	0.07	< 0.005	—	3.78
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	0.46	0.54	1.00	0.05	< 0.005	—	2.53
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.17	0.20	0.37	0.02	< 0.005	—	0.93
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.97	1.12	2.10	0.10	< 0.005	—	5.31
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.80	0.99	1.80	0.08	< 0.005	—	4.45
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.14	7.50	13.6	0.63	0.02	—	33.9
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	1.53	1.90	3.43	0.16	< 0.005	—	8.49
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	< 0.005	< 0.005	—	0.13
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	< 0.005	< 0.005	—	0.03

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.69	0.80	1.49	0.07	< 0.005	—	3.78
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	0.46	0.54	1.00	0.05	< 0.005	—	2.53
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.67	0.00	0.67	0.07	0.00	—	2.36
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.3
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.89	0.00	4.89	0.49	0.00	—	17.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	—	111
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	31.3	0.00	31.3	3.13	0.00	—	109
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.40	0.00	7.40	0.74	0.00	—	25.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.67	0.00	0.67	0.07	0.00	—	2.36
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.3
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.89	0.00	4.89	0.49	0.00	—	17.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	—	111
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	31.3	0.00	31.3	3.13	0.00	—	109
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.40	0.00	7.40	0.74	0.00	—	25.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.61	2.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.86	1.86
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	532	532
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.61	2.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60

Retirement	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.86	1.86
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	532	532
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	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
Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	150
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	15
Non-Catalytic Wood Stoves	15
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0
Retirement Community	—
Wood Fireplaces	0

Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	150
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	15
Non-Catalytic Wood Stoves	15
Pellet Wood Stoves	0
Conventional Wood Stoves	0

Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0
Retirement Community	—
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1287900	429,300	277,800	92,600	19,811

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	76,033	204	0.0330	0.0040	70,505
Fast Food Restaurant with Drive Thru	451,255	204	0.0330	0.0040	1,262,715
Hotel	924,632	204	0.0330	0.0040	5,188,239
Apartments Low Rise	1,474,469	204	0.0330	0.0040	8,294,843
Retirement Community	589,787	204	0.0330	0.0040	3,317,937
Apartments Low Rise	884,681	204	0.0330	0.0040	4,976,906
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	49,988	204	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	321,718	204	0.0330	0.0040	900,243
Automobile Care Center	183,906	204	0.0330	0.0040	635,112

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)
Strip Mall	76,033	204	0.0330	0.0040	70,505
Fast Food Restaurant with Drive Thru	451,255	204	0.0330	0.0040	1,262,715
Hotel	924,632	204	0.0330	0.0040	5,188,239

Apartments Low Rise	1,474,469	204	0.0330	0.0040	8,294,843
Retirement Community	589,787	204	0.0330	0.0040	3,317,937
Apartments Low Rise	884,681	204	0.0330	0.0040	4,976,906
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	49,988	204	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	321,718	204	0.0330	0.0040	900,243
Automobile Care Center	183,906	204	0.0330	0.0040	635,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	533,322	14,825
Fast Food Restaurant with Drive Thru	3,065,387	27,798
Hotel	2,536,677	298,979
Apartments Low Rise	12,088,800	1,223,421
Retirement Community	4,835,520	593,074
Apartments Low Rise	7,253,280	767,379
City Park	0.00	711,569
Other Asphalt Surfaces	0.00	562,379
Parking Lot	0.00	117,499
Fast Food Restaurant w/o Drive Thru	2,185,443	14,825
Automobile Care Center	1,458,351	31,918

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	533,322	14,825
Fast Food Restaurant with Drive Thru	3,065,387	27,798
Hotel	2,536,677	298,979
Apartments Low Rise	12,088,800	1,223,421
Retirement Community	4,835,520	593,074
Apartments Low Rise	7,253,280	767,379
City Park	0.00	711,569
Other Asphalt Surfaces	0.00	562,379
Parking Lot	0.00	117,499
Fast Food Restaurant w/o Drive Thru	2,185,443	14,825
Automobile Care Center	1,458,351	31,918

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	7.56	—
Fast Food Restaurant with Drive Thru	116	—
Hotel	54.8	—
Apartments Low Rise	222	—
Retirement Community	351	—
Apartments Low Rise	133	—
City Park	0.31	—
Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Fast Food Restaurant w/o Drive Thru	82.9	—

Automobile Care Center	59.2	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	7.56	—
Fast Food Restaurant with Drive Thru	116	—
Hotel	54.8	—
Apartments Low Rise	222	—
Retirement Community	351	—
Apartments Low Rise	133	—
City Park	0.31	—
Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Fast Food Restaurant w/o Drive Thru	82.9	—
Automobile Care Center	59.2	—

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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 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	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0

Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 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	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	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

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)

8. User Changes to Default Data

Screen	Justification
Land Use	Land use development to be evaluated, consistent with the project description (current as of January 2024) and 2023 traffic impact analysis.
Construction: Construction Phases	No demolition. CalEEMod default durations used, as construction schedule and phasing will be based on market conditions.
Construction: Dust From Material Movement	Site is expected to balance; however, up to 25,000 total cubic yards of cut or fill may be required and is included in this analysis.

Operations: Vehicle Data	Trip rates from ITE Trip Generation Manual, 11th Edition - based on project-specific Traffic Impact Analysis prepared by JLB Traffic (report dated October 10, 2023). Average pass-by rates for the shopping plaza from the ITE Trip Generation Manual, 11th Edition applied to the strip mall land use.
Operations: Fleet Mix	SJVAPCD-approved residential fleet mix for the 2024 operational year applied to residential uses. Adjusted fleet mixes for fast food (including fast casual restaurant), automobile care center, and strip mall land uses (see supporting information).
Operations: Hearths	No woodburning fireplaces or wood stoves

Selma Mixed-use Project - Localized Analysis Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Selma Mixed-use Project - Localized Analysis
Construction Start Date	8/1/2023
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	23.2
Location	36.574375, -119.633028
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2541
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Strip Mall	7.20	1000sqft	0.17	7,200	1,080	—	—	Strip Retail Plaza (Commercial Uses)
Fast Food Restaurant with Drive Thru	10.1	1000sqft	0.31	10,099	2,025	—	—	Fast-Food Restaurant with Drive-Through
Hotel	100	Room	3.33	145,200	21,780	—	—	Hotel
Apartments Low Rise	300	Dwelling Unit	11.2	318,000	72,919	—	960	Multifamily Housing
Retirement Community	120	Dwelling Unit	5.41	127,200	35,349	—	384	Senior Adult Housing
Apartments Low Rise	180	Dwelling Unit	7.00	190,800	45,738	—	576	Affordable Housing
City Park	3.57	Acre	3.57	0.00	23,326	23,326	—	—
Other Asphalt Surfaces	6.27	Acre	6.27	0.00	40,968	—	—	—
Parking Lot	1.31	Acre	1.31	0.00	8,560	—	—	—
Fast Food Restaurant w/o Drive Thru	7.20	1000sqft	0.17	7,200	1,080	—	—	Fast Casual Restaurant
Automobile Care Center	15.5	1000sqft	0.36	15,501	2,325	—	—	Quick Lubrication Vehicle Shop + Automated Car Wash

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.81	4.69	36.0	33.2	0.06	1.60	7.86	9.46	1.47	3.96	5.43	—	6,769	6,769	0.29	0.12	1.26	6,800
2025	3.49	3.19	12.0	19.1	0.02	0.43	0.40	0.84	0.40	0.07	0.47	—	2,935	2,935	0.20	0.11	1.16	2,974
2026	3.26	2.98	11.4	18.6	0.02	0.38	0.40	0.79	0.35	0.07	0.42	—	2,924	2,924	0.20	0.11	1.04	2,962
2027	3.59	93.0	11.8	20.3	0.03	0.36	0.63	0.98	0.33	0.10	0.43	—	3,111	3,111	0.21	0.11	1.06	3,149
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.51	4.38	36.0	33.2	0.05	1.60	7.86	9.46	1.47	3.96	5.43	—	5,316	5,316	0.31	0.12	0.03	5,335
2025	3.23	2.92	12.2	20.8	0.02	0.43	0.40	0.84	0.40	0.07	0.47	—	2,919	2,919	0.24	0.11	0.03	2,957
2026	3.04	2.75	11.5	20.2	0.02	0.38	0.40	0.79	0.35	0.07	0.42	—	2,908	2,908	0.22	0.11	0.03	2,946
2027	3.33	92.7	12.0	22.1	0.03	0.36	0.63	0.98	0.33	0.10	0.43	—	3,092	3,092	0.25	0.12	0.03	3,134
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.49	2.22	15.4	16.9	0.03	0.64	1.50	2.14	0.59	0.61	1.20	—	2,971	2,971	0.16	0.06	0.19	2,992
2025	2.32	2.11	8.63	14.1	0.02	0.31	0.28	0.59	0.29	0.05	0.33	—	2,087	2,087	0.16	0.08	0.36	2,114
2026	2.19	1.99	8.17	13.7	0.02	0.27	0.28	0.55	0.25	0.05	0.30	—	2,079	2,079	0.15	0.08	0.32	2,106
2027	0.90	14.3	3.29	5.72	0.01	0.10	0.14	0.24	0.09	0.02	0.12	—	864	864	0.06	0.03	0.12	875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.45	0.41	2.81	3.09	< 0.005	0.12	0.27	0.39	0.11	0.11	0.22	—	492	492	0.03	0.01	0.03	495
2025	0.42	0.39	1.57	2.57	< 0.005	0.06	0.05	0.11	0.05	0.01	0.06	—	346	346	0.03	0.01	0.06	350
2026	0.40	0.36	1.49	2.50	< 0.005	0.05	0.05	0.10	0.05	0.01	0.05	—	344	344	0.03	0.01	0.05	349
2027	0.16	2.62	0.60	1.04	< 0.005	0.02	0.03	0.04	0.02	< 0.005	0.02	—	143	143	0.01	0.01	0.02	145

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	49.5	48.3	14.1	116	0.08	0.10	4.78	4.88	0.10	1.21	1.31	—	8,367	8,367	2.29	1.24	23.6	8,818
Area	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	55.6	72.4	25.9	164	0.16	1.04	4.78	5.82	1.03	1.21	2.24	618	25,557	26,176	65.5	1.49	3,497	31,754
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	42.9	41.2	16.2	152	0.08	0.10	4.78	4.89	0.10	1.21	1.31	—	7,902	7,902	3.04	1.37	0.61	8,386
Area	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	44.2	60.9	27.5	157	0.15	1.01	4.78	5.79	1.00	1.21	2.21	618	24,968	25,587	66.3	1.61	3,474	31,197
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	35.5	34.4	12.1	104	0.06	0.08	3.83	3.91	0.08	0.97	1.05	—	6,506	6,506	2.15	1.04	8.29	6,879
Area	2.46	21.2	1.32	21.2	0.01	0.11	—	0.11	0.10	—	0.10	0.00	1,480	1,480	0.03	< 0.005	—	1,482
Energy	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	10,669	10,669	1.15	0.07	—	10,718
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Waste	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Total	38.7	56.0	19.8	129	0.11	0.69	3.83	4.52	0.68	0.97	1.65	618	18,736	19,354	65.3	1.28	3,481	24,849

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.49	6.28	2.21	19.0	0.01	0.02	0.70	0.71	0.01	0.18	0.19	—	1,077	1,077	0.36	0.17	1.37	1,139
Area	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245
Energy	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,766	1,766	0.19	0.01	—	1,775
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7
Waste	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	7.07	10.2	3.61	23.6	0.02	0.13	0.70	0.82	0.12	0.18	0.30	102	3,102	3,204	10.8	0.21	576	4,114

3. Construction Emissions Details

3.1. Site Preparation (2024) - 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	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.96	2.71	< 0.005	0.13	—	0.13	0.12	—	0.12	—	435	435	0.02	< 0.005	—	437
Dust From Material Movement	—	—	—	—	—	—	0.63	0.63	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.54	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.1	72.1	< 0.005	< 0.005	—	72.3
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.20	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.03	10.7
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
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	0.07	0.06	0.02	0.26	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.37	9.37	< 0.005	< 0.005	< 0.005	10.0
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.39	5.39	< 0.005	< 0.005	< 0.005	5.64
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.83
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.46
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	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - 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	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.24	3.24	—	1.24	1.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	0.72	7.05	6.20	0.01	0.30	—	0.30	0.27	—	0.27	—	1,356	1,356	0.05	0.01	—	1,360
Dust From Material Movement	—	—	—	—	—	—	0.66	0.66	—	0.25	0.25	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.29	1.13	< 0.005	0.05	—	0.05	0.05	—	0.05	—	224	224	0.01	< 0.005	—	225
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.22	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.03	12.2
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
Hauling	0.05	0.03	0.71	0.48	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	149	149	0.01	0.02	0.18	156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.23	2.23	< 0.005	< 0.005	< 0.005	2.38
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.15

Hauling	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	30.7	30.7	< 0.005	< 0.005	0.02	32.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.08	5.08	< 0.005	< 0.005	< 0.005	5.33

3.5. Building Construction (2024) - 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	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.37	3.49	4.08	0.01	0.15	—	0.15	0.14	—	0.14	—	746	746	0.03	0.01	—	749
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.77
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.07	0.64	0.74	< 0.005	0.03	—	0.03	0.03	—	0.03	—	124	124	0.01	< 0.005	—	124
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.21	2.16	0.46	5.70	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	291	291	0.11	0.05	0.82	309
Vendor	0.07	0.05	1.13	0.72	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	253	253	0.02	0.04	0.41	265
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	1.93	1.86	0.55	7.57	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	272	272	0.13	0.05	0.02	290
Vendor	0.07	0.05	1.19	0.77	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	255	255	0.01	0.04	0.01	266
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	0.61	0.59	0.15	1.98	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	85.9	85.9	0.04	0.02	0.11	91.6
Vendor	0.02	0.01	0.36	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	78.9	78.9	0.01	0.01	0.05	82.5
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.03	0.36	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	0.01	< 0.005	0.02	15.2
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.7
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. Building Construction (2025) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.38	5.38	< 0.005	< 0.005	< 0.005	5.64
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.06	2.01	0.43	5.28	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	284	284	0.09	0.05	0.75	302
Vendor	0.07	0.05	1.11	0.71	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	248	248	0.02	0.04	0.40	260
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	1.82	1.75	0.51	7.01	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	266	266	0.12	0.05	0.02	284
Vendor	0.06	0.05	1.18	0.75	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	250	250	0.01	0.04	0.01	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.27	0.33	4.21	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	193	193	0.08	0.04	0.23	206
Vendor	0.05	0.03	0.81	0.52	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	178	178	0.01	0.03	0.12	186
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	0.24	0.23	0.06	0.77	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	31.9	31.9	0.01	0.01	0.04	34.1
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.02	30.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (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	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.18	5.18	< 0.005	< 0.005	< 0.005	5.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.91	1.86	0.40	4.90	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	278	278	0.09	0.05	0.68	296
Vendor	0.07	0.05	1.10	0.70	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	243	243	0.01	0.04	0.36	255
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	1.69	1.63	0.48	6.49	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	260	260	0.11	0.05	0.02	278
Vendor	0.06	0.05	1.16	0.74	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	246	246	0.01	0.04	0.01	257
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	1.23	1.19	0.31	3.90	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	189	189	0.07	0.04	0.21	201
Vendor	0.05	0.03	0.80	0.51	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	174	174	0.01	0.03	0.11	183

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	0.22	0.22	0.06	0.71	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	31.2	31.2	0.01	0.01	0.03	33.3
Vendor	0.01	0.01	0.15	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.9	28.9	< 0.005	< 0.005	0.02	30.3
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

3.11. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.70	3.72	0.01	0.10	—	0.10	0.09	—	0.09	—	690	690	0.03	0.01	—	692
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	0.01	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.54
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.05	0.49	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	114	114	< 0.005	< 0.005	—	115
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.26
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.79	1.75	0.37	4.55	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	272	272	0.08	0.04	0.61	287
Vendor	0.07	0.05	1.08	0.70	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	238	238	0.01	0.04	0.31	250
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	1.58	1.53	0.44	6.03	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	254	254	0.11	0.05	0.02	272
Vendor	0.06	0.05	1.14	0.73	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	241	241	0.01	0.04	0.01	252
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	0.46	0.45	0.12	1.46	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	74.3	74.3	0.03	0.01	0.08	79.3
Vendor	0.02	0.01	0.32	0.20	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	68.9	68.9	< 0.005	0.01	0.04	72.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.27	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	0.01	13.1
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	11.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2024) - 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	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.77
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.18	1.51	< 0.005	0.06	—	0.06	0.05	—	0.05	—	228	228	0.01	< 0.005	—	229
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.82	0.82	< 0.005	< 0.005	< 0.005	0.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.01	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.59	8.59	< 0.005	< 0.005	0.02	9.14
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
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	0.06	0.05	0.02	0.22	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.03	8.03	< 0.005	< 0.005	< 0.005	8.58
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.39	5.39	< 0.005	< 0.005	< 0.005	5.64
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
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	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.22
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

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

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

Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	89.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	89.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	13.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.35	0.07	0.91	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	54.5	54.5	0.02	0.01	0.12	57.3
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	0.01	5.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.31	0.09	1.21	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	50.8	50.8	0.02	0.01	< 0.005	54.4
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.10	5.10	< 0.005	< 0.005	< 0.005	5.34
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	0.05	0.05	0.01	0.15	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.78	7.78	< 0.005	< 0.005	0.01	8.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
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	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.38
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.46	1.42	0.37	3.26	< 0.005	< 0.005	0.14	0.14	< 0.005	0.03	0.04	—	238	238	0.06	0.03	0.69	251
Fast Food Restaurant with Drive Thru	23.1	22.6	5.95	51.7	0.04	0.05	2.19	2.24	0.04	0.55	0.60	—	3,779	3,779	1.03	0.55	11.0	3,980
Hotel	2.98	2.90	0.99	6.76	0.01	0.01	0.29	0.29	0.01	0.07	0.08	—	531	531	0.13	0.08	1.47	559
Apartments Low Rise	14.7	14.3	4.83	37.6	0.03	0.03	1.47	1.50	0.03	0.37	0.40	—	2,600	2,600	0.73	0.40	6.88	2,744
Retirement Community	1.36	1.33	0.45	3.50	< 0.005	< 0.005	0.14	0.14	< 0.005	0.03	0.04	—	242	242	0.07	0.04	0.64	255
City Park	0.03	0.03	0.01	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.14	5.14	< 0.005	< 0.005	0.01	5.41
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
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
Fast Food Restaurant w/o Drive Thru	2.60	2.54	0.67	5.81	< 0.005	0.01	0.25	0.25	< 0.005	0.06	0.07	—	425	425	0.12	0.06	1.24	447
Automobile Care Center	3.35	3.27	0.86	7.49	0.01	0.01	0.32	0.32	0.01	0.08	0.09	—	547	547	0.15	0.08	1.60	576
Total	49.5	48.3	14.1	116	0.08	0.10	4.78	4.88	0.10	1.21	1.31	—	8,367	8,367	2.29	1.24	23.6	8,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	1.26	1.21	0.43	4.24	< 0.005	< 0.005	0.14	0.14	< 0.005	0.03	0.04	—	225	225	0.09	0.04	0.02	238
Fast Food Restaurant with Drive Thru	20.0	19.3	6.87	67.3	0.04	0.05	2.19	2.24	0.04	0.55	0.60	—	3,568	3,568	1.37	0.61	0.29	3,784
Hotel	2.58	2.48	1.12	8.75	< 0.005	0.01	0.29	0.29	0.01	0.07	0.08	—	504	504	0.18	0.09	0.04	534
Apartments Low Rise	12.7	12.2	5.50	49.3	0.02	0.03	1.47	1.50	0.03	0.37	0.40	—	2,454	2,454	0.97	0.44	0.18	2,609
Retirement Community	1.18	1.13	0.51	4.59	< 0.005	< 0.005	0.14	0.14	< 0.005	0.03	0.04	—	228	228	0.09	0.04	0.02	243
City Park	0.02	0.02	0.01	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.88	4.88	< 0.005	< 0.005	< 0.005	5.17
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
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
Fast Food Restaurant w/o Drive Thru	2.25	2.17	0.77	7.56	< 0.005	0.01	0.25	0.25	< 0.005	0.06	0.07	—	401	401	0.15	0.07	0.03	425
Automobile Care Center	2.89	2.79	0.99	9.74	0.01	0.01	0.32	0.32	0.01	0.08	0.09	—	517	517	0.20	0.09	0.04	548
Total	42.9	41.2	16.2	152	0.08	0.10	4.78	4.89	0.10	1.21	1.31	—	7,902	7,902	3.04	1.37	0.61	8,386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.23	0.23	0.07	0.66	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	37.7	37.7	0.01	0.01	0.05	39.9

Fast Food Restaurant with Drive Thru	2.95	2.86	0.92	8.30	0.01	0.01	0.31	0.32	0.01	0.08	0.09	—	476	476	0.16	0.08	0.63	503
Hotel	0.46	0.44	0.18	1.30	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	80.7	80.7	0.02	0.01	0.10	85.2
Apartments Low Rise	1.68	1.62	0.66	5.43	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	293	293	0.10	0.05	0.35	310
Retirement Community	0.21	0.20	0.08	0.68	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	36.5	36.5	0.01	0.01	0.04	38.7
City Park	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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
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
Fast Food Restaurant w/o Drive Thru	0.42	0.40	0.13	1.17	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	67.3	67.3	0.02	0.01	0.09	71.1
Automobile Care Center	0.53	0.52	0.17	1.50	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.02	—	85.7	85.7	0.03	0.01	0.11	90.6
Total	6.49	6.28	2.21	19.0	0.01	0.02	0.70	0.71	0.01	0.18	0.19	—	1,077	1,077	0.36	0.17	1.37	1,139

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	42.5	42.5	0.01	< 0.005	—	42.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	255
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	517	517	0.08	0.01	—	522
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,318	1,318	0.21	0.03	—	1,331
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	333
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.9	27.9	< 0.005	< 0.005	—	28.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.03	< 0.005	—	182
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,770	2,770	0.45	0.05	—	2,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.03	7.03	< 0.005	< 0.005	—	7.10

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.01	< 0.005	—	42.2
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	85.6	85.6	0.01	< 0.005	—	86.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.04	< 0.005	—	220
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	54.6	54.6	0.01	< 0.005	—	55.1
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.63	4.63	< 0.005	< 0.005	—	4.67
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	29.8	29.8	< 0.005	< 0.005	—	30.1
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	459	459	0.07	0.01	—	463

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Fast Food Restaurant with Drive Thru	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	405	405	0.04	< 0.005	—	406
Hotel	0.15	0.08	1.39	1.17	0.01	0.11	—	0.11	0.11	—	0.11	—	1,663	1,663	0.15	< 0.005	—	1,667
Apartments Low Rise	0.39	0.20	3.35	1.43	0.02	0.27	—	0.27	0.27	—	0.27	—	4,253	4,253	0.38	0.01	—	4,265
Retirement Community	0.10	0.05	0.84	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,063	1,063	0.09	< 0.005	—	1,066
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.03	< 0.005	—	289
Automobile Care Center	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	204
Total	0.73	0.36	6.35	3.60	0.04	0.50	—	0.50	0.50	—	0.50	—	7,899	7,899	0.70	0.01	—	7,921
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.74	3.74	< 0.005	< 0.005	—	3.75

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.0	67.0	0.01	< 0.005	—	67.2
Hotel	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Apartments Low Rise	0.07	0.04	0.61	0.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	704	704	0.06	< 0.005	—	706
Retirement Community	0.02	0.01	0.15	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.02	< 0.005	—	177
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Automobile Care Center	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Total	0.13	0.07	1.16	0.66	0.01	0.09	—	0.09	0.09	—	0.09	—	1,308	1,308	0.12	< 0.005	—	1,311

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.71	4.43	0.41	42.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
Total	5.30	23.7	5.38	44.1	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,441	6,441	0.12	0.01	—	6,448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.58	0.29	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Consumer Products	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.58	19.3	4.98	2.12	0.03	0.40	—	0.40	0.40	—	0.40	0.00	6,317	6,317	0.12	0.01	—	6,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	235	235	< 0.005	< 0.005	—	235
Consumer Products	—	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.42	0.40	0.04	3.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.1	10.1	< 0.005	< 0.005	—	10.2
Total	0.45	3.87	0.24	3.86	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	245	245	< 0.005	< 0.005	—	245

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.02	1.19	2.22	0.10	< 0.005	—	5.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.87	6.79	12.7	0.60	0.01	—	32.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	5.99	10.8	0.50	0.01	—	26.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	37.1	45.3	82.3	3.81	0.09	—	205
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	9.27	11.4	20.7	0.95	0.02	—	51.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.96	0.96	< 0.005	< 0.005	—	0.97
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.76	0.76	< 0.005	< 0.005	—	0.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.19	4.83	9.02	0.43	0.01	—	22.8
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.79	3.25	6.05	0.29	0.01	—	15.3
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	80.7	146	6.69	0.16	—	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.17	0.20	0.37	0.02	< 0.005	—	0.93
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.97	1.12	2.10	0.10	< 0.005	—	5.31
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.80	0.99	1.80	0.08	< 0.005	—	4.45
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.14	7.50	13.6	0.63	0.02	—	33.9
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	1.53	1.90	3.43	0.16	< 0.005	—	8.49
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	< 0.005	< 0.005	—	0.13
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	< 0.005	< 0.005	—	0.03
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.69	0.80	1.49	0.07	< 0.005	—	3.78

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	0.46	0.54	1.00	0.05	< 0.005	—	2.53
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.4	24.1	1.11	0.03	—	59.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.7	0.00	62.7	6.27	0.00	—	219
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	191	0.00	191	19.1	0.00	—	669
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.58
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	44.7	0.00	44.7	4.47	0.00	—	156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	112
Total	—	—	—	—	—	—	—	—	—	—	—	553	0.00	553	55.3	0.00	—	1,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.67	0.00	0.67	0.07	0.00	—	2.36
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.3
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.89	0.00	4.89	0.49	0.00	—	17.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	—	111
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	31.3	0.00	31.3	3.13	0.00	—	109
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.40	0.00	7.40	0.74	0.00	—	25.9

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	91.6	0.00	91.6	9.16	0.00	—	321

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	227	227
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,214	3,214
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,473	3,473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.61	2.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.86	1.86
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	532	532
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/1/2024	4/11/2024	5.00	30.0	—
Grading	Grading	4/12/2024	7/25/2024	5.00	75.0	—

Building Construction	Building Construction	7/26/2024	5/27/2027	5.00	740	—
Paving	Paving	7/26/2024	10/10/2024	5.00	55.0	—
Architectural Coating	Architectural Coating	3/12/2027	5/27/2027	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	2.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.50	HHDT,MHDT
Grading	Hauling	41.7	0.50	HHDT
Grading	Onsite truck	2.00	0.25	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	508	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	94.5	0.50	HHDT,MHDT
Building Construction	Hauling	0.00	0.50	HHDT
Building Construction	Onsite truck	2.00	0.25	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.50	HHDT,MHDT
Paving	Hauling	0.00	0.50	HHDT
Paving	Onsite truck	2.00	0.25	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	102	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.50	HHDT,MHDT

Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	2.00	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	1,287,900	429,300	277,800	92,600	19,811

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	45.0	0.00	—
Grading	12,500	12,500	225	0.00	—
Paving	0.00	0.00	0.00	0.00	7.58

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Strip Mall	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Hotel	0.00	0%
Apartments Low Rise	—	0%
Retirement Community	—	0%
Apartments Low Rise	—	0%
City Park	0.00	0%
Other Asphalt Surfaces	6.27	100%
Parking Lot	1.31	100%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Automobile Care Center	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
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Strip Mall	392	392	392	143,095	196	196	196	71,547
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	2,361	3,111	2,386	902,076
Hotel	799	807	594	281,363	400	404	297	140,681
Apartments Low Rise	2,022	1,365	1,158	658,721	1,011	682	579	329,360
Retirement Community	389	329	324	135,405	194	164	162	67,702
Apartments Low Rise	866	2,160	1,699	426,956	433	1,080	850	213,478
City Park	2.78	7.00	7.82	1,499	1.39	3.50	3.91	749
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	350	350	350	127,642
Automobile Care Center	895	901	859	325,111	448	451	430	162,555

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	150
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	150
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	15
Non-Catalytic Wood Stoves	15
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0
Retirement Community	—
Wood Fireplaces	0
Gas Fireplaces	75
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	75
Conventional Wood Stoves	0
Catalytic Wood Stoves	8
Non-Catalytic Wood Stoves	8
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1287900	429,300	277,800	92,600	19,811

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	76,033	204	0.0330	0.0040	70,505
Fast Food Restaurant with Drive Thru	451,255	204	0.0330	0.0040	1,262,715
Hotel	924,632	204	0.0330	0.0040	5,188,239
Apartments Low Rise	1,474,469	204	0.0330	0.0040	8,294,843
Retirement Community	589,787	204	0.0330	0.0040	3,317,937
Apartments Low Rise	884,681	204	0.0330	0.0040	4,976,906
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	49,988	204	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	321,718	204	0.0330	0.0040	900,243
Automobile Care Center	183,906	204	0.0330	0.0040	635,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	533,322	14,825
Fast Food Restaurant with Drive Thru	3,065,387	27,798
Hotel	2,536,677	298,979
Apartments Low Rise	12,088,800	1,223,421
Retirement Community	4,835,520	593,074
Apartments Low Rise	7,253,280	767,379
City Park	0.00	711,569
Other Asphalt Surfaces	0.00	562,379
Parking Lot	0.00	117,499
Fast Food Restaurant w/o Drive Thru	2,185,443	14,825
Automobile Care Center	1,458,351	31,918

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	7.56	—
Fast Food Restaurant with Drive Thru	116	—
Hotel	54.8	—
Apartments Low Rise	222	—
Retirement Community	351	—
Apartments Low Rise	133	—
City Park	0.31	—

Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Fast Food Restaurant w/o Drive Thru	82.9	—
Automobile Care Center	59.2	—

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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 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	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	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

5.16. 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

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. 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)

8. User Changes to Default Data

Screen	Justification
Land Use	Land use development to be evaluated, consistent with the project description (current as of January 2024) and 2023 traffic impact analysis.
Construction: Construction Phases	No demolition. CalEEMod default durations used, as construction schedule and phasing will be based on market conditions.
Construction: Dust From Material Movement	Site is expected to balance; however, up to 25,000 total cubic yards of cut or fill may be required and is included in this analysis.
Operations: Vehicle Data	Trip rates from ITE Trip Generation Manual, 11th Edition - based on project-specific Traffic Impact Analysis prepared by JLB Traffic (report dated October 10, 2023). Trip lengths updated to 0.5 mile to account for on-site and localized emissions from mobile sources.
Operations: Fleet Mix	SJVAPCD-approved residential fleet mix for the 2024 operational year applied to residential uses. Adjusted fleet mixes for fast food (including fast casual restaurant), automobile care center, and strip mall land uses (see supporting information).
Operations: Hearths	No woodburning fireplaces or wood stoves
Construction: Trips and VMT	Trip lengths updated to 0.5 mile to account for on-site and localized emissions from construction vehicles.

Off-site Pipeline Improvements Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Off-site Pipeline Improvements
Construction Start Date	6/25/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	23.2
Location	36.574375, -119.633028
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2541
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.23

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

User Defined Linear	2.10	Mile	2.55	0.00	—	—	—	Off-site pipeline improvements (11,089 linear feet)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.82	0.69	6.85	7.18	0.02	0.34	0.92	1.21	0.32	0.22	0.49	—	3,129	3,129	0.08	0.42	6.42	3,262
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.67	0.56	5.20	7.12	0.01	0.25	0.05	0.30	0.23	0.01	0.24	—	1,134	1,134	0.04	0.02	0.01	1,140
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.15	0.12	1.04	1.16	< 0.005	0.05	0.05	0.10	0.05	0.01	0.06	—	238	238	0.01	0.01	0.09	242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.03	0.02	0.19	0.21	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	39.4	39.4	< 0.005	< 0.005	0.01	40.1

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2024) - 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	0.51	0.43	3.69	3.52	< 0.005	0.24	—	0.24	0.23	—	0.23	—	491	491	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.44
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.22	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.4	36.4	< 0.005	< 0.005	0.15	37.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
Hauling	0.12	0.06	3.08	0.73	0.02	0.05	0.66	0.71	0.05	0.18	0.23	—	2,547	2,547	0.06	0.40	6.13	2,675
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.09
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.9	48.9	< 0.005	0.01	0.05	51.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.09	8.09	< 0.005	< 0.005	0.01	8.48

3.3. Linear, Grading & Excavation (2024) - 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	0.79	0.67	5.50	6.66	0.01	0.34	—	0.34	0.31	—	0.31	—	992	992	0.04	0.01	—	995

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	87.0	87.0	< 0.005	< 0.005	—	87.3
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	0.09	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	14.4	14.4	< 0.005	< 0.005	—	14.4
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.22	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.4	36.4	< 0.005	< 0.005	0.15	37.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	2.93	2.93	< 0.005	< 0.005	0.01	2.97
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.78	4.78	< 0.005	< 0.005	0.01	5.00
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.49
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.83
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, Drainage, Utilities, & Sub-Grade (2024) - 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	0.73	0.61	4.24	4.19	0.01	0.18	—	0.18	0.17	—	0.17	—	605	605	0.02	< 0.005	—	607
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.24	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.8	34.8	< 0.005	< 0.005	—	34.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.77	5.77	< 0.005	< 0.005	—	5.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.22	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.4	36.4	< 0.005	< 0.005	0.15	37.0
Vendor	0.01	0.01	0.28	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	218	218	< 0.005	0.03	0.59	228
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	< 0.005	1.95
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.01	13.1

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.17
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. Linear, Paving (2024) - 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	0.65	0.54	5.11	6.93	0.01	0.25	—	0.25	0.23	—	0.23	—	1,046	1,046	0.04	0.01	—	1,050
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.65	0.54	5.11	6.93	0.01	0.25	—	0.25	0.23	—	0.23	—	1,046	1,046	0.04	0.01	—	1,050
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.5	31.5	< 0.005	< 0.005	—	31.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.22	5.22	< 0.005	< 0.005	—	5.24
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	0.02	0.02	0.01	0.22	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.4	36.4	< 0.005	< 0.005	0.15	37.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.5	54.5	< 0.005	0.01	0.15	57.1
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	< 0.005	32.6
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.6	54.6	< 0.005	0.01	< 0.005	57.0
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	—	1.01	1.01	< 0.005	< 0.005	< 0.005	1.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.72
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	6/25/2024	7/4/2024	5.00	7.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	7/5/2024	8/18/2024	5.00	32.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	5.00	21.0	—
Linear, Paving	Linear, Paving	9/18/2024	10/3/2024	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, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82

Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
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	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	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
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	1.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	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, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	4.00	11.4	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	8.53	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	35.7	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	4.00	11.4	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	8.53	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	4.00	11.4	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	8.00	8.53	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	4.00	11.4	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	8.53	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

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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 (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	0.00	2,000	2.55	0.00	—
Linear, Grading & Excavation	0.00	0.00	2.55	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	2.55	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	2.55	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	235	204	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)

8. User Changes to Default Data

Screen	Justification
Construction: Off-Road Equipment	Estimated construction equipment for off-site pipeline improvements.
Construction: Trips and VMT	Estimated worker and vendor trips added for the off-site pipeline improvements.

Off-site Pipeline Improvements - Localized Analysis Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Off-site Pipeline Improvements - Localized Analysis
Construction Start Date	6/25/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	23.2
Location	36.574375, -119.633028
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2541
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.23

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

User Defined Linear	2.10	Mile	2.55	0.00	—	—	—	Off-site pipeline improvements (11,089 linear feet)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.81	0.68	5.52	6.99	0.01	0.34	0.23	0.55	0.31	0.03	0.34	—	1,055	1,055	0.04	0.03	0.17	1,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.66	0.56	5.14	7.01	0.01	0.25	< 0.005	0.25	0.23	< 0.005	0.23	—	1,055	1,055	0.04	0.01	< 0.005	1,058
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.15	0.12	0.97	1.12	< 0.005	0.05	0.02	0.08	0.05	< 0.005	0.05	—	168	168	0.01	< 0.005	< 0.005	169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.03	0.02	0.18	0.21	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	27.8	27.8	< 0.005	< 0.005	< 0.005	27.9

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2024) - 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	0.51	0.43	3.69	3.52	< 0.005	0.24	—	0.24	0.23	—	0.23	—	491	491	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.44
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	0.01	2.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
Hauling	0.04	0.03	0.61	0.41	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	127	127	0.01	0.02	0.15	134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	< 0.005	2.58
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43

3.3. Linear, Grading & Excavation (2024) - 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	0.79	0.67	5.50	6.66	0.01	0.34	—	0.34	0.31	—	0.31	—	992	992	0.04	0.01	—	995

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	87.0	87.0	< 0.005	< 0.005	—	87.3
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	0.09	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	14.4	14.4	< 0.005	< 0.005	—	14.4
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	0.01	2.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.49
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
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, Drainage, Utilities, & Sub-Grade (2024) - 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	0.73	0.61	4.24	4.19	0.01	0.18	—	0.18	0.17	—	0.17	—	605	605	0.02	< 0.005	—	607
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.24	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.8	34.8	< 0.005	< 0.005	—	34.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.77	5.77	< 0.005	< 0.005	—	5.79
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	0.01	2.44
Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.4	21.4	< 0.005	< 0.005	0.03	22.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
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. Linear, Paving (2024) - 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	0.65	0.54	5.11	6.93	0.01	0.25	—	0.25	0.23	—	0.23	—	1,046	1,046	0.04	0.01	—	1,050
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.65	0.54	5.11	6.93	0.01	0.25	—	0.25	0.23	—	0.23	—	1,046	1,046	0.04	0.01	—	1,050
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.5	31.5	< 0.005	< 0.005	—	31.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.22	5.22	< 0.005	< 0.005	—	5.24
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	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	0.01	2.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	0.01	5.60
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	0.02	0.01	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.29
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.39	5.39	< 0.005	< 0.005	< 0.005	5.64
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
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	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	6/25/2024	7/4/2024	5.00	7.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	7/5/2024	8/18/2024	5.00	32.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	5.00	21.0	—
Linear, Paving	Linear, Paving	9/18/2024	10/3/2024	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, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82

Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
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	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	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
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	1.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	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, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	4.00	0.50	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	0.50	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	35.7	0.50	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	4.00	0.50	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	0.50	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	0.50	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	4.00	0.50	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	8.00	0.50	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	0.50	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	4.00	0.50	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	0.50	HHDT,MHDT
Linear, Paving	Hauling	0.00	0.50	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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 (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	0.00	2,000	2.55	0.00	—
Linear, Grading & Excavation	0.00	0.00	2.55	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	2.55	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	2.55	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	235	204	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)

8. User Changes to Default Data

Screen	Justification
Construction: Off-Road Equipment	Estimated construction equipment for off-site pipeline improvements.
Construction: Trips and VMT	Estimated worker and vendor trips added for the off-site pipeline improvements. Trip lengths updated to 0.5 mile to account for on-site and localized emissions from construction vehicles.

ATTACHMENT B

Health Risk Assessments

Health Risk Assessments

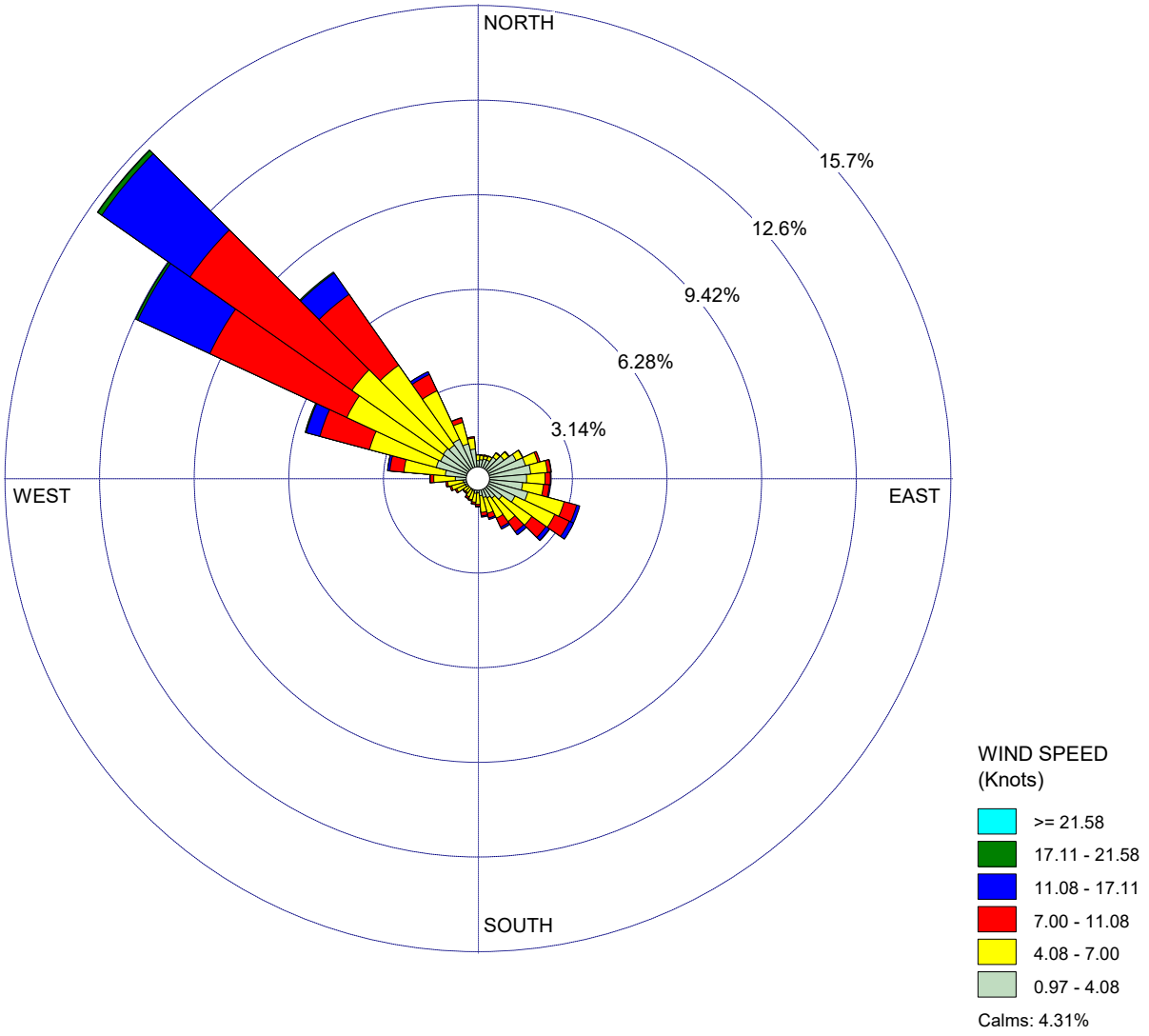
General Parameters

WIND ROSE PLOT:

Wind Rose - Fresno Station (#93193) – Blowing From

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2013 - 00:00** **End Date: 12/31/2017 - 23:59**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **4.31%**	TOTAL COUNT: **43534 hrs.**	
	AVG. WIND SPEED: **5.73 Knots**	DATE: **5/14/2023**	PROJECT NO.:

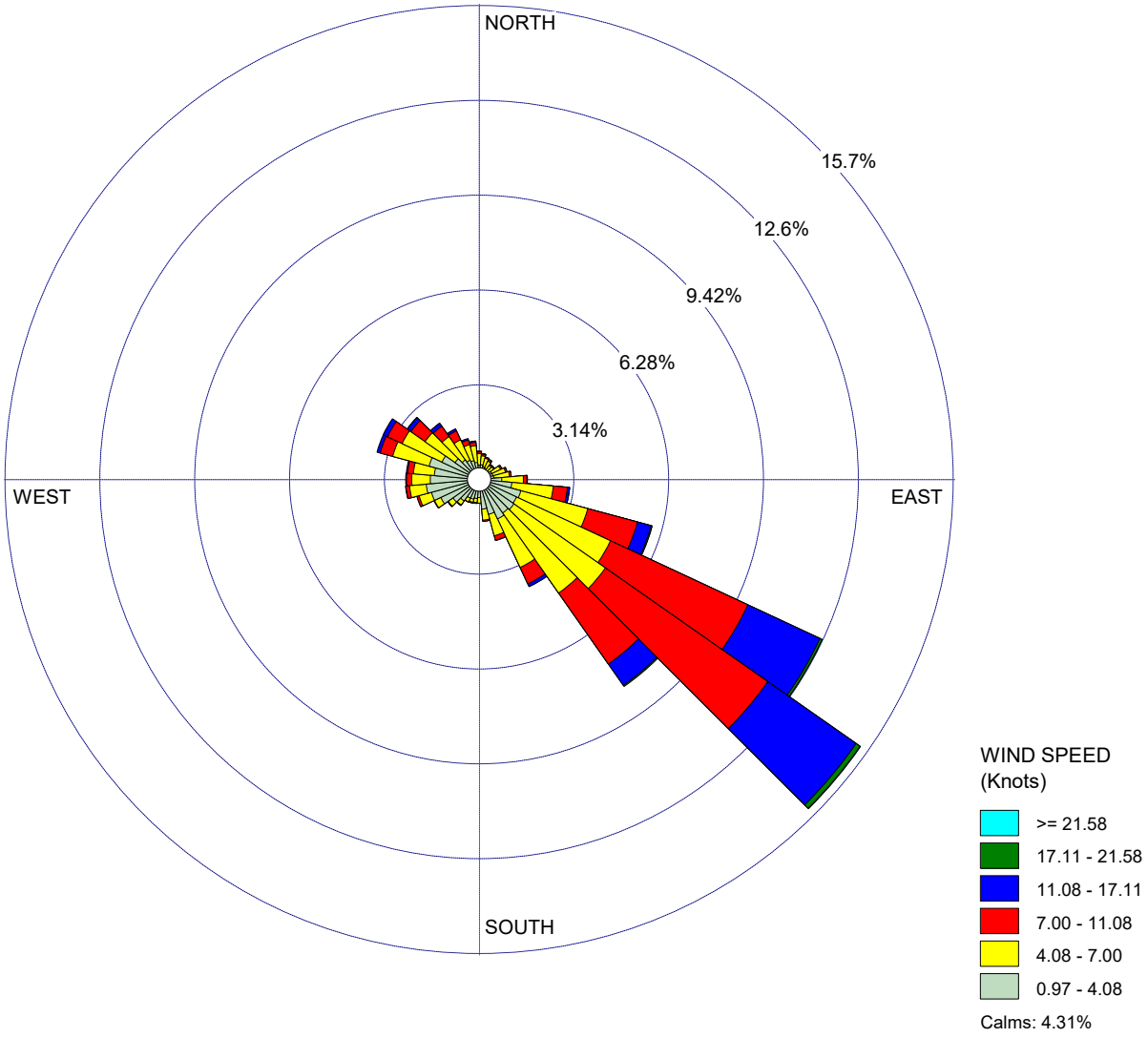
WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Wind Rose - Fresno Station (#93193) – Blowing To

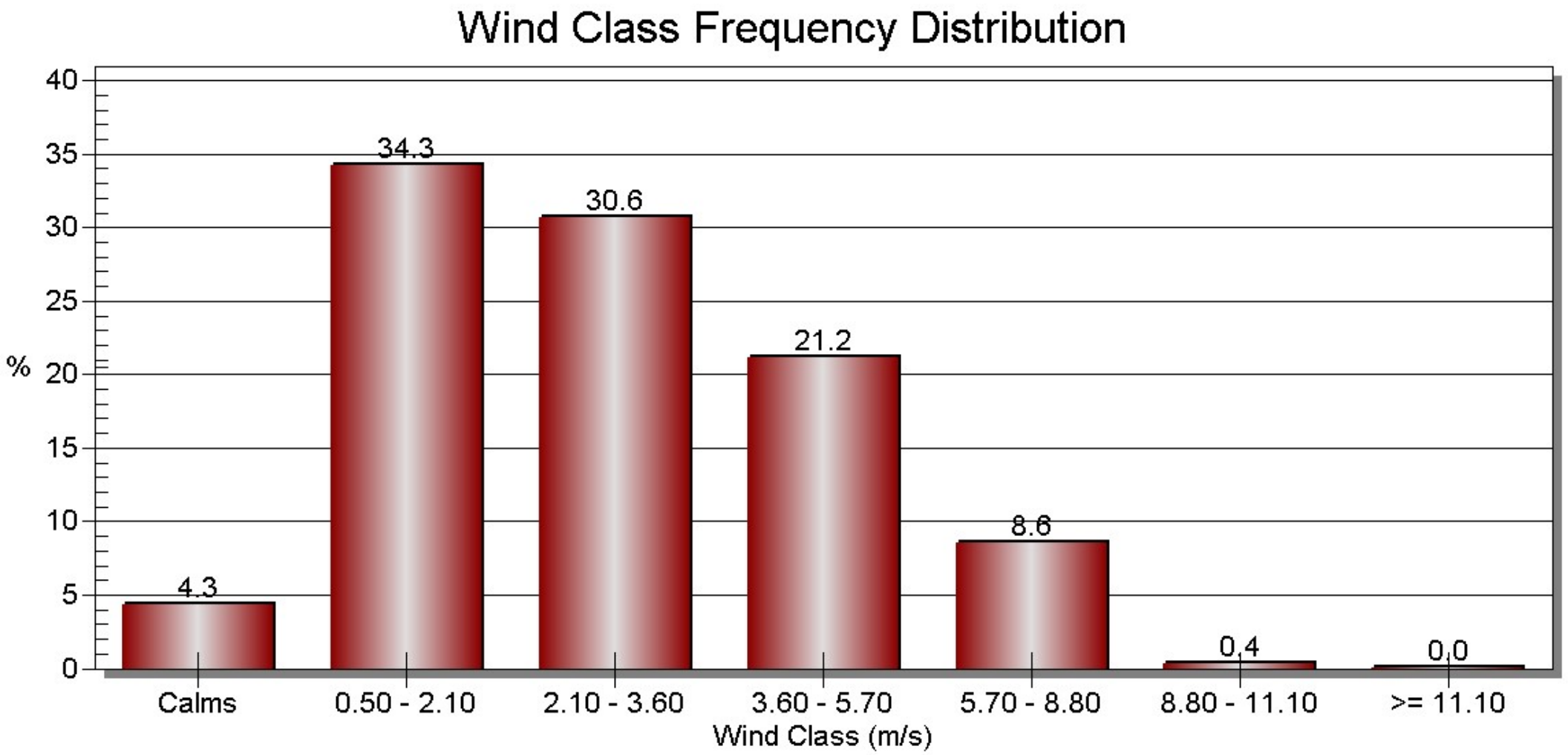
DISPLAY:

Wind Speed
Flow Vector (blowing to)



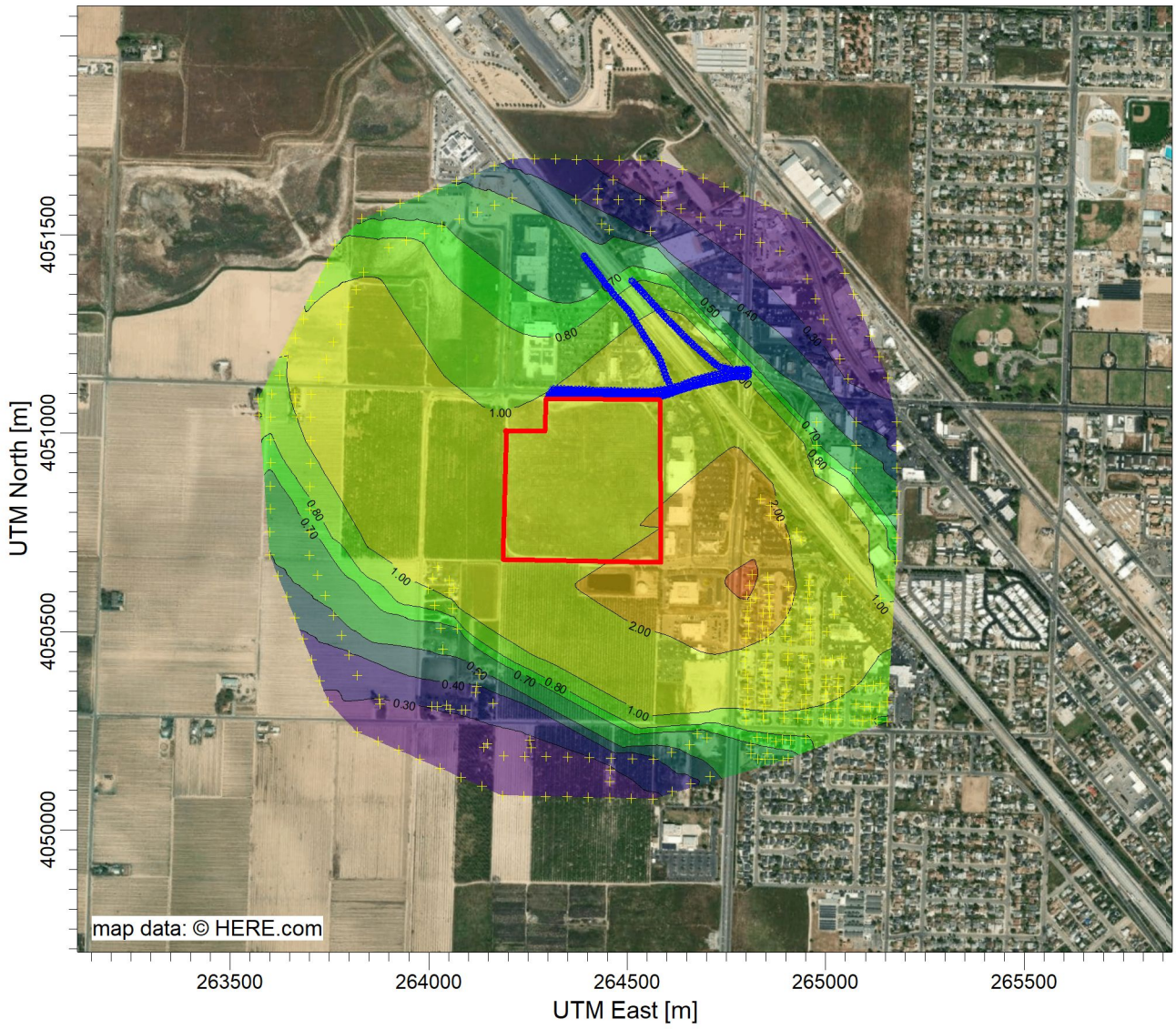
COMMENTS:	DATA PERIOD: **Start Date: 1/1/2013 - 00:00** **End Date: 12/31/2017 - 23:59**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **4.31%**	TOTAL COUNT: **43534 hrs.**	
	AVG. WIND SPEED: **5.73 Knots**	DATE: **5/14/2023**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
40
35
30
25
20
15
10
5
0
%
34.3
30.6
21.2
8.6
4.3
0.4
0.0
Calms
0.50 - 2.10
2.10 - 3.60
3.60 - 5.70
5.70 - 8.80
8.80 - 11.10
>= 11.10
Wind Class (m/s)

PROJECT TITLE:

Air Dispersion Trend – Construction Site DPM Emissions



PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: AREA1 ug/m^3

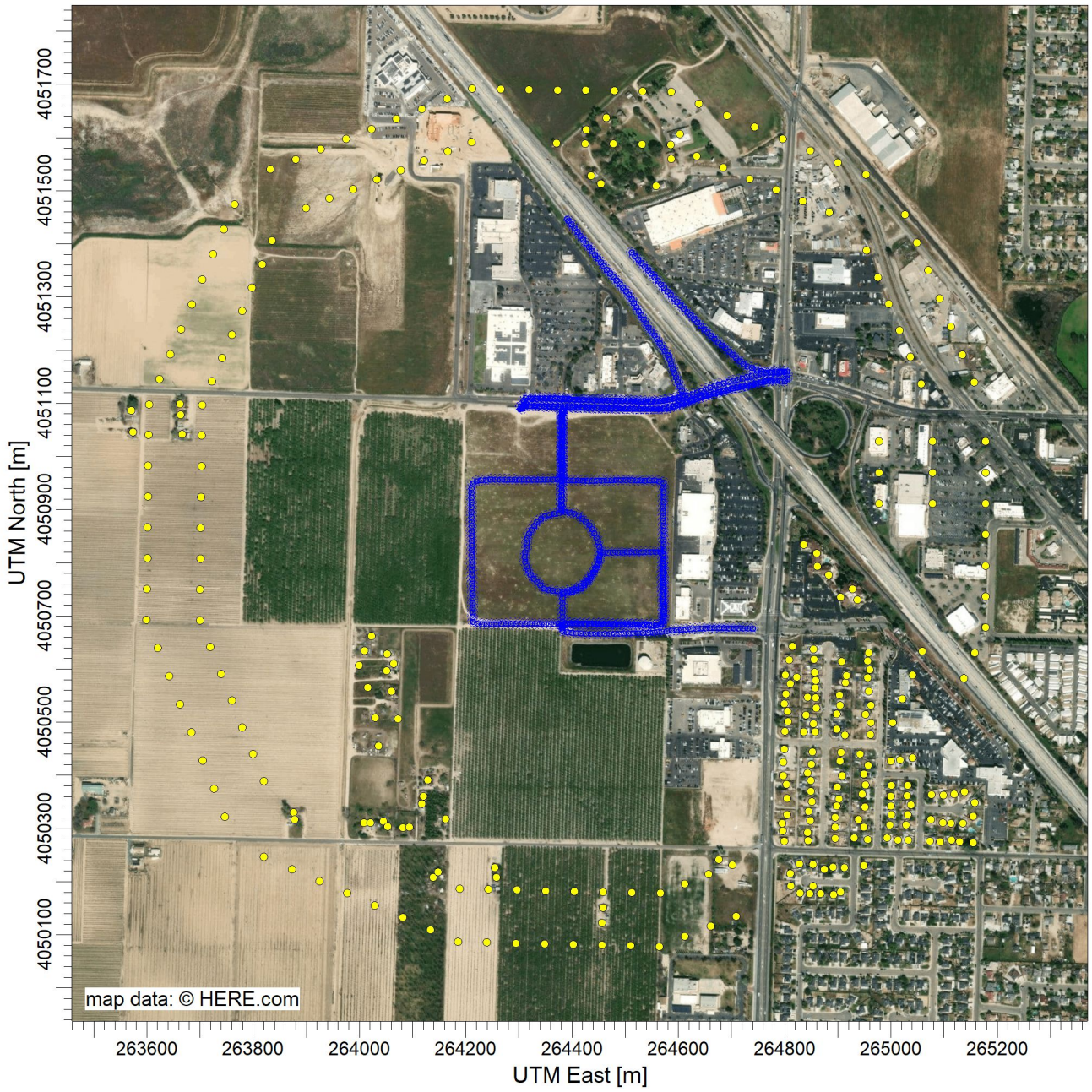
Max: 3.18 [ug/m^3] at (264814.83, 4050642.58)

0.15 0.30 0.40 0.50 0.70 0.80 1.00 2.00 3.00 3.18

COMMENTS:	SOURCES: **5**	COMPANY NAME:	
	RECEPTORS: **318**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:17,348 0 0.5 km	
	MAX: **3.18 ug/m^3**	DATE: **5/31/2023**	PROJECT NO.:

PROJECT TITLE:

Graphical Representation AERMOD Inputs - Project Operations



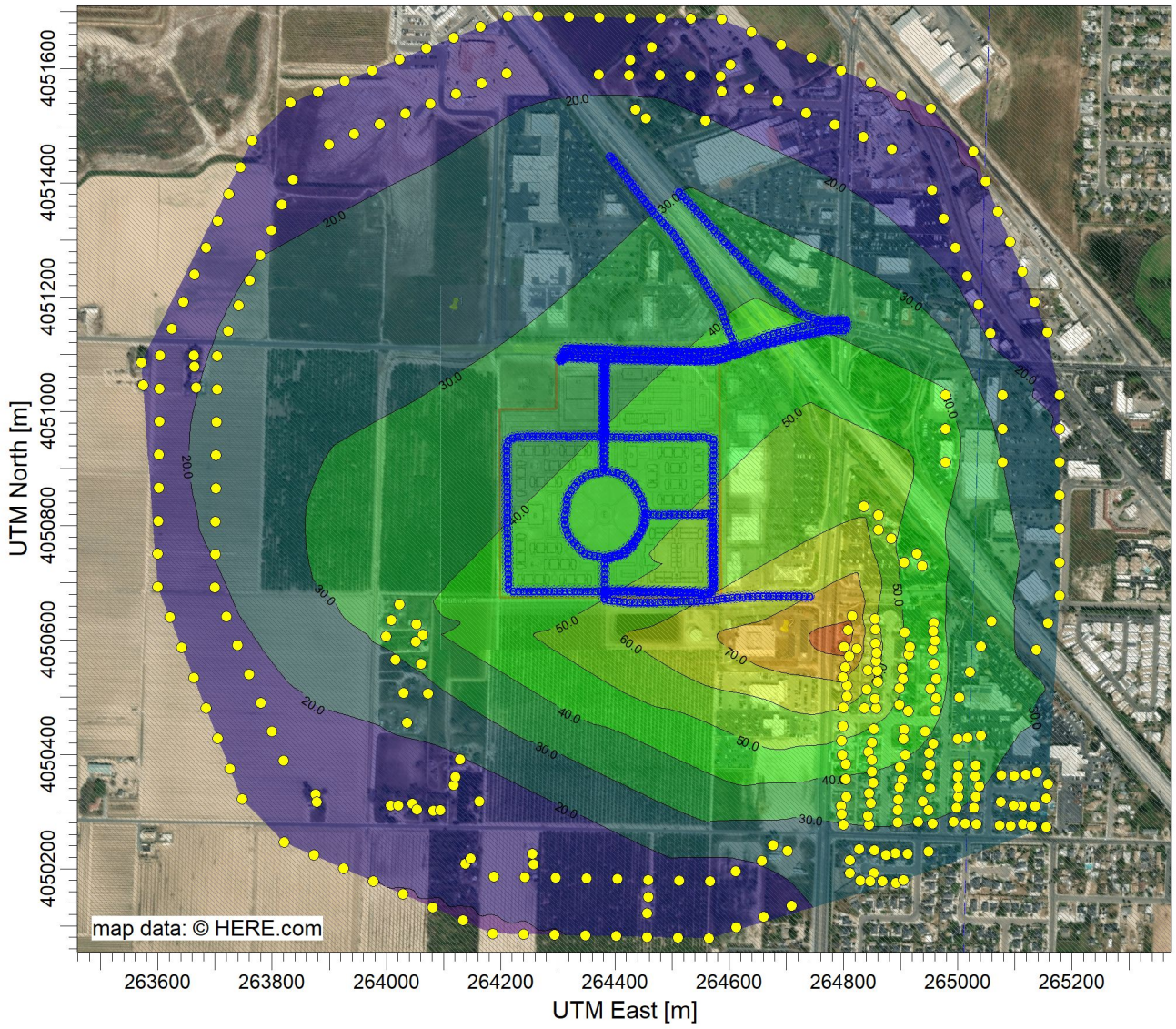
COMMENTS:	SOURCES: **9**	COMPANY NAME:	
	RECEPTORS: **318**	MODELER:	
		SCALE: 1:12,023 0 0.4 km	
		DATE: **6/4/2023**	PROJECT NO.:

AERMOD View - Lakes Environmental Software

D:\Move\0014-023\Operations\Operations.isc

PROJECT TITLE:

Air Dispersion Trend - Project Operations (Unit Emissions)



PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: ALL ug/m^3

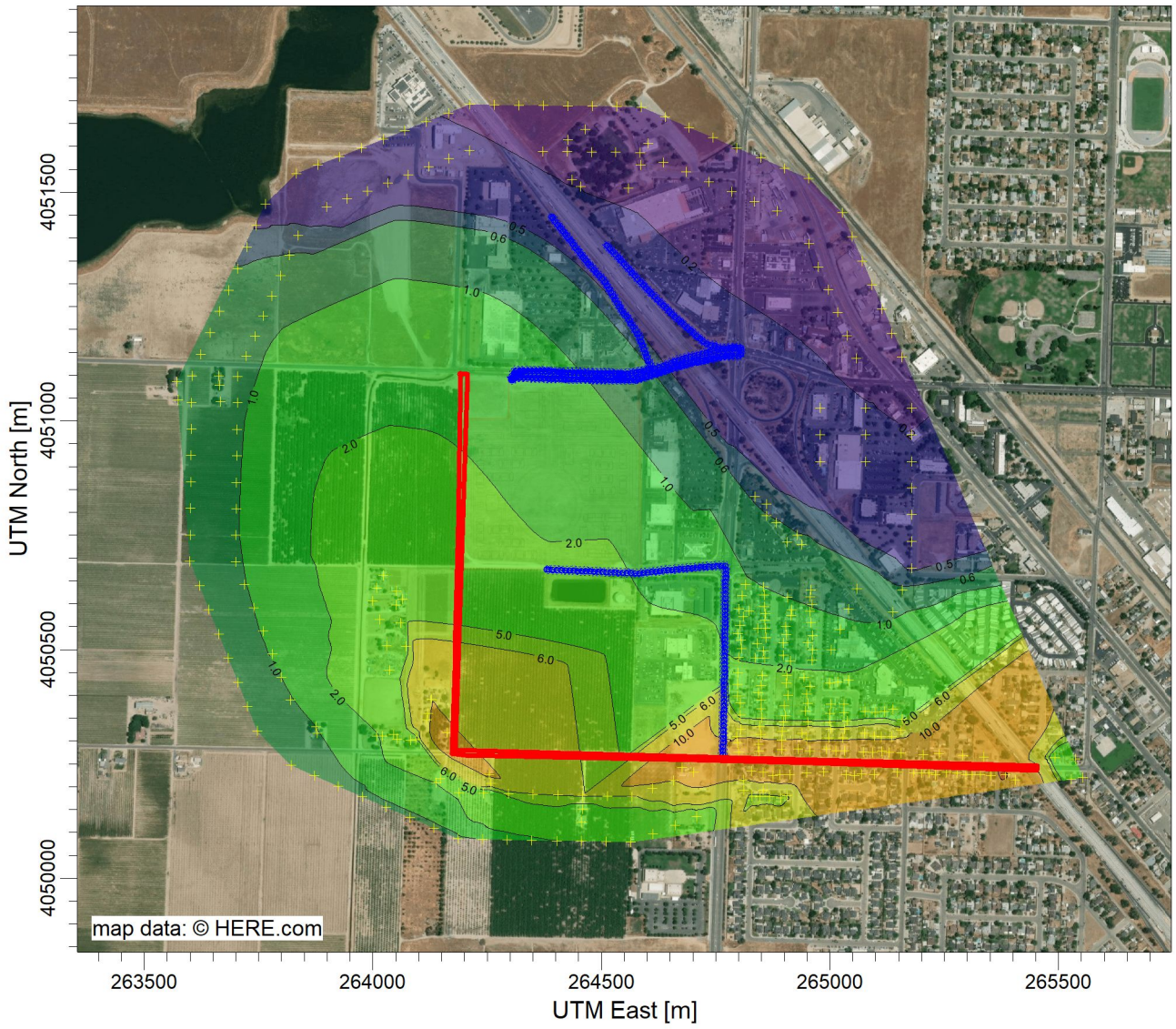
Max: 84.5 [ug/m^3] at (264808.09, 4050617.49)

8.8 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 84.5

COMMENTS:	SOURCES: **9**	COMPANY NAME:	
	RECEPTORS: **318**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:12,044 0 0.4 km	
	MAX: **84.5 ug/m^3**	DATE: **6/4/2023**	PROJECT NO.:

PROJECT TITLE:

Air Dispersion Trend + Inputs – Offsite Improvements
(DPM Unit Emissions)



PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: AREA ug/m^3

Max: 20.7 [ug/m^3] at (265384.24, 4050226.48)

COMMENTS:	SOURCES: **6**	COMPANY NAME:	
	RECEPTORS: **344**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:15,054 0 0.5 km	
	MAX: **20.7 ug/m^3**	DATE: **5/29/2024**	PROJECT NO.:

Health Risk Assessments

Unmitigated Construction

Selma Mixed-use Project (Unmitigated Construction)

Estimation of Annual Onsite Construction Emissions

Start of Construction	8/1/2023	
End of Construction	10/26/2026	**Total**
Number of Days	1,182	1,182
Number of Hours	28,368	28,368

Size of the construction area source: **151,394.0** **sq-meters**

Year	On-site Construction Activity	Unmitigated On-site DPM (pounds)
2023	On-site Site Preparation	54.15226
2023	On-site Grading	119.57389
2023	On-site Building Construction 2023	2.36907
2024	On-site Building Construction 2024	130.12941
2025	On-site Building Construction 2025	112.58703
2026	On-site Building Construction 2026	80.86968
2023	On-site Paving 2023	1.76727
2024	On-site Paving 2024	19.73828
2024	On-site Architectural Coating	1.27344

Total Unmitigated DPM (On-site) 5.225E+02 pounds

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2

Average Emission for AREA1	2.372E+05	grams
	2.323E-03	grams/sec
	1.534E-08	grams/m2-sec

Pounds/Construction Period	5.225E+02
Pounds/Day	4.420E-01
Pounds/Hour	1.842E-02
Pounds/Year	1.613E+02
Years	3.23836

Selma Mixed-use Project (Unmitigated Construction)

Estimation of Annual Offsite Construction DPM Emissions (Unmitigated)

Start of Construction		8/1/2023								
End of Construction		10/26/2026								**Total**
Number of Days		1,182								1,182
Number of Hours		28,368								28,368
	2023	2023	2023	2024	2025	2026	2023	2024	2024	
Construction Trip Type	Site Preparation	Grading	Building Construction	Building Construction	Building Construction	Building Construction	Paving	Paving	Architectural Coating	**Total (pounds)**
Total (pounds)	0.02356	4.19256	0.15180	9.259557101	9.234257764	7.56450	0.00337	0.03983	0.04319	30.51262

	Haul Truck	**Vendor Truck**	**Worker**	**Total**
Site Preparation	0.00	2.00	17.50	19.50
Grading	41.60	2.00	20.00	63.60
Building Construction	0.00	94.08	506.33	600.42
Paving	0.00	2.00	15.00	17.00
Architectural Coating	0.00	2.00	101.27	103.27
Total	**41.60**	**102.08**	**660.10**	**803.79**

	Haul Truck (pounds)	**Vendor Truck (pounds)**	**Worker (pounds)**	**Total (pounds)**
Total DPM	1.579E+00	3.875E+00	2.506E+01	3.051E+01
Average Emissions				
Grams	7.169E+02	1.759E+03	1.138E+04	
Grams/sec	7.020E-06	1.723E-05	1.114E-04	
Default Distance	20	8.53	11.41	Default Vehicle Travel Distance in CalEEMod

Vehicle Travel Distances in the Construction HRA (miles)				
Road Segment 1 (mi)	0.45	0.45	0.45	miles
Road Segment 2 (mi)	0.57	0.57	0.57	miles
Road Segment 3 (mi)	0.33	0.33	0.33	miles
Road Segment 4 (mi)	0.31	0.31	0.31	miles
Trip Distribution (percent)				
Off-site Road Segment 1	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 2	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 3	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 4	25.0%	25.0%	25.0%	on-site

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Off-site Road Segment 1	3.925E-08	2.258E-07	1.092E-06	1.357E-06
Off-site Road Segment 2	5.022E-08	2.890E-07	1.397E-06	1.736E-06
Off-site Road Segment 3	2.867E-08	1.554E-07	7.973E-07	9.814E-07
Off-site Road Segment 4	2.701E-08	1.554E-07	7.512E-07	9.336E-07

	Grams/sec	Pounds/Hour	Pounds/Day	Pounds/year	Tons/year
Off-site Road Segment 1	1.357E-06	1.077E-05	2.585E-04	9.434E-02	4.717E-05
Off-site Road Segment 2	1.736E-06	1.378E-05	3.307E-04	1.207E-01	6.035E-05
Off-site Road Segment 3	9.814E-07	7.789E-06	1.869E-04	2.210E-01	1.105E-04
Off-site Road Segment 4	9.336E-07	7.410E-06	1.778E-04	2.102E-01	1.051E-04

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

Selma Mixed-use Project (Unmitigated Construction)

	RISK SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
Maximum Risk	2.8804E-06	2.88	1.4758E-03	0.00E+00

	X	Y
MEI UTM	264814.83	4050642.58
Lat/Long	36°34'20.3"N	119°37'42.0"W
Receptor # 1		

*HARP - HRACalc v22118 6/3/2023 6:39:22 PM - Cancer Risk - Input File: F:\Move\0014-023\HARP\01 - Unmit Con\UNMIT CON\hra\Selma Unmit ConHRAInput.hra
*HARP - HRACalc v22118 6/3/2023 6:39:22 PM - Chronic Risk - Input File: F:\Move\0014-023\HARP\01 - Unmit Con\UNMIT CON\hra\Selma Unmit ConHRAInput.hra
*HARP - HRACalc v22118 6/3/2023 6:39:22 PM - Acute Risk - Input File: F:\Move\0014-023\HARP\01 - Unmit Con\UNMIT CON\hra\Selma Unmit ConHRAInput.hra

REC	GRP	X	Y	RISK SUM	SCENARIO	MAXHI NonCancerChronic	MAXHI Acute
1	ALL	264814.83	4050642.58	2.8804E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.476E-03	0.00E+00
2	ALL	264806.10	4050501.48	2.1017E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.077E-03	0.00E+00
3	ALL	264802.66	4050552.80	2.5174E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.290E-03	0.00E+00
4	ALL	264856.30	4050593.92	2.2983E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.178E-03	0.00E+00
5	ALL	264854.46	4050637.24	2.4193E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.240E-03	0.00E+00
6	ALL	264803.61	4050383.01	1.2888E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	6.603E-04	0.00E+00
7	ALL	264852.72	4050443.86	1.5784E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.087E-04	0.00E+00
8	ALL	264897.66	4050487.38	1.6498E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.453E-04	0.00E+00
9	ALL	264903.98	4050532.24	1.7837E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.139E-04	0.00E+00
10	ALL	264956.02	4050583.56	1.6045E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.221E-04	0.00E+00
11	ALL	264957.85	4050630.40	1.6061E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.229E-04	0.00E+00
12	ALL	264611.68	4050195.99	4.1965E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.150E-04	0.00E+00
13	ALL	264656.79	4050213.78	4.9572E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.540E-04	0.00E+00
14	ALL	264701.90	4050231.57	5.8200E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.982E-04	0.00E+00
15	ALL	264798.58	4050276.69	8.0393E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.119E-04	0.00E+00
16	ALL	264844.27	4050277.07	8.2592E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.232E-04	0.00E+00
17	ALL	264894.76	4050302.33	9.1564E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.691E-04	0.00E+00
18	ALL	264946.24	4050365.22	1.0912E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.591E-04	0.00E+00
19	ALL	264956.76	4050418.62	1.2410E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	6.359E-04	0.00E+00
20	ALL	265000.03	4050427.25	1.1678E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.983E-04	0.00E+00
21	ALL	265002.67	4050499.30	1.2983E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	6.652E-04	0.00E+00
22	ALL	265021.48	4050543.99	1.2777E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	6.546E-04	0.00E+00
23	ALL	265040.29	4050588.69	1.2085E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	6.192E-04	0.00E+00
24	ALL	265059.10	4050633.38	1.1124E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.699E-04	0.00E+00
25	ALL	264566.58	4050178.20	3.5586E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.823E-04	0.00E+00
26	ALL	264512.51	4050179.42	3.2146E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.647E-04	0.00E+00
27	ALL	264458.45	4050180.65	2.9259E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.499E-04	0.00E+00
28	ALL	264404.38	4050181.88	2.6962E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.381E-04	0.00E+00
29	ALL	264350.31	4050183.10	2.5193E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.291E-04	0.00E+00
30	ALL	264296.25	4050184.33	2.3821E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.221E-04	0.00E+00
31	ALL	264242.18	4050185.55	2.2769E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.167E-04	0.00E+00
32	ALL	264188.12	4050186.78	2.1922E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.123E-04	0.00E+00
33	ALL	264612.43	4050097.20	2.8684E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.470E-04	0.00E+00
34	ALL	264660.54	4050116.18	3.3509E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.717E-04	0.00E+00
35	ALL	264708.65	4050135.16	3.9192E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.008E-04	0.00E+00
36	ALL	264811.22	4050192.14	5.6964E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.919E-04	0.00E+00
37	ALL	264853.00	4050192.09	5.9242E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.035E-04	0.00E+00
38	ALL	264911.84	4050226.19	6.9490E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.560E-04	0.00E+00
39	ALL	264949.22	4050230.05	7.0842E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.630E-04	0.00E+00
40	ALL	265013.17	4050278.72	8.0571E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.128E-04	0.00E+00
41	ALL	265037.47	4050344.37	9.2609E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.745E-04	0.00E+00
42	ALL	265000.79	4050380.76	1.0572E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.417E-04	0.00E+00
43	ALL	265137.78	4050582.73	8.9441E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.583E-04	0.00E+00
44	ALL	265157.85	4050630.40	8.0800E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.140E-04	0.00E+00
45	ALL	264564.31	4050078.22	2.4744E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.268E-04	0.00E+00
46	ALL	264510.25	4050079.45	2.2770E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.167E-04	0.00E+00
47	ALL	264456.18	4050080.68	2.1161E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.084E-04	0.00E+00
48	ALL	264402.11	4050081.90	1.9899E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.020E-04	0.00E+00
49	ALL	264348.05	4050083.13	1.8957E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.713E-05	0.00E+00
50	ALL	264293.98	4050084.35	1.8230E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.340E-05	0.00E+00
51	ALL	264239.92	4050085.58	1.7668E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.052E-05	0.00E+00
52	ALL	264185.85	4050086.80	1.7163E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.794E-05	0.00E+00
53	ALL	264051.98	4050628.06	1.1589E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.938E-04	0.00E+00
54	ALL	264064.03	4050609.99	1.0809E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.538E-04	0.00E+00
55	ALL	263998.93	4050606.77	8.8537E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.536E-04	0.00E+00
56	ALL	264015.34	4050565.60	7.5584E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.873E-04	0.00E+00
57	ALL	264072.34	4050506.66	6.2537E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.204E-04	0.00E+00
58	ALL	264036.03	4050455.24	4.7331E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.425E-04	0.00E+00
59	ALL	264117.44	4050346.96	3.3774E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.730E-04	0.00E+00
60	ALL	264162.34	4050317.96	3.1812E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.630E-04	0.00E+00
61	ALL	263719.56	4050641.53	5.1343E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.631E-04	0.00E+00
62	ALL	263739.65	4050591.11	4.7946E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.457E-04	0.00E+00
63	ALL	263759.73	4050540.69	4.4049E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.257E-04	0.00E+00
64	ALL	263779.81	4050490.27	3.9753E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.037E-04	0.00E+00
65	ALL	263799.90	4050439.86	3.5319E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.810E-04	0.00E+00
66	ALL	263819.98	4050389.44	3.1076E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.592E-04	0.00E+00
67	ALL	263875.69	4050330.54	2.7108E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.389E-04	0.00E+00
68	ALL	264138.40	4050208.53	2.2408E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.148E-04	0.00E+00
69	ALL	263699.48	4050691.94	5.4392E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.787E-04	0.00E+00
70	ALL	263700.09	4050749.84	6.0973E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.124E-04	0.00E+00
71	ALL	263700.70	4050807.73	6.8426E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.506E-04	0.00E+00
72	ALL	263701.32	4050865.63	7.6655E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.928E-04	0.00E+00
73	ALL	263701.93	4050923.52	8.5468E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.379E-04	0.00E+00
74	ALL	263702.54	4050981.41	9.3828E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.807E-04	0.00E+00
75	ALL	263703.16	4051039.31	1.0044E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.146E-04	0.00E+00
76	ALL	263703.77	4051097.20	1.0435E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.346E-04	0.00E+00
77	ALL	263620.57	4050640.06	4.2347E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.170E-04	0.00E+00
78	ALL	263641.66	4050587.13	4.0102E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.055E-04	0.00E+00
79	ALL	263662.75	4050534.19	3.7481E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.920E-04	0.00E+00
80	ALL	263683.84	4050481.25	3.4466E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.765E-04	0.00E+00
81	ALL	263704.93	4050428.31	3.1144E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.596E-04	0.00E+00
82	ALL	263726.01	4050375.37	2.7808E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.425E-04	0.00E+00
83	ALL	263747.10	4050322.44	2.4650E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.263E-04	0.00E+00
84	ALL	263820.40	4050246.66	2.1003E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.076E-04	0.00E+00
85	ALL	263872.61	4050223.82	2.0197E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.035E-04	0.00E+00
86	ALL	263924.81	4050200.99	1.9455E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.968E-05	0.00E+00
87	ALL	263977.02	4050178.15	1.8826E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.646E-05	0.00E+00
88	ALL	264029.23	4050155.31	1.8310E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.381E-05	0.00E+00
89	ALL	264081.44	4050132.48	1.7887E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.165E-05	0.00E+00
90	ALL	264133.64	4050109.64	1.7517E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	8.975E-05	0.00E+00
91	ALL	263599.48	4050693.00	4.4297E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.270E-04	0.00E+00
92	ALL	263600.10	4050750.90	4.8505E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.485E-04	0.00E+00
93	ALL	263600.71	4050808.79	5.3305E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.731E-04	0.00E+00
94	ALL	263601.32	4050866.68	5.8692E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.007E-04	0.00E+00
95	ALL	263601.94	4050924.58	6.4715E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.316E-04	0.00E+00
96	ALL	263602.55	4050982.47	7.0830E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.629E-04	0.00E+00
97	ALL	263603.16	4051040.37	7.6448E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.917E-04	0.00E+00
98	ALL	263603.77	4051098.26	8.0651E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.132E-04	0.00E+00
99	ALL	264166.37	4051574.11	5.0279E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.576E-04	0.00E+00
100	ALL	264121.83	4051556.35	5.4977E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.817E-04	0.00E+00
101	ALL	264077.30	4051538.60	6.0133E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.081E-04	0.00E+00
102	ALL	264032.76	4051520.85	6.4871E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.324E-04	0.00E+00
103	ALL	263988.22	4051503.10	6.9844E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.579E-04	0.00E+00
104	ALL	263943.69	4051485.34	7.4103E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.797E-04	0.00E+00
105	ALL	263899.15	4051467.59	7.7477E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.970E-04	0.00E+00
106	ALL	263835.76	4051405.76	8.8561E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.538E-04	0.00E+00
107	ALL	263816.90	4051361.68	9.7023E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.971E-04	0.00E+00
108	ALL	263798.05	4051317.60	1.0458E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.358E-04	0.00E+00
109	ALL	263779.19	4051273.52	1.1021E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.646E-04	0.00E+00
110	ALL	263760.34	4051229.44	1.1327E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.804E-04	0.00E+00
111	ALL	263741.48	4051185.36	1.1332E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.806E-04	0.00E+00
112	ALL	263722.62	4051141.28	1.1017E-06	3.24YrCancerHighEnd InhSoilDermMMilkCrops	5.645E-04	0.00E+00
113	ALL	264210.90	4051591.86	4.5331E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.323E-04	0.00E+00
114	ALL	264371.26	4051589.56	3.7075E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.900E-04	0.00E+00
115	ALL	264424.71	4051588.80	3.3838E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.734E-04	0.00E+00
116	ALL	264478.17	4051588.03	3.1138E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.595E-04	0.00E+00
117	ALL	264531.62	4051587.26	2.8574E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.464E-04	0.00E+00
118	ALL	264585.07	4051586.50	2.6204E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.343E-04	0.00E+00
119	ALL	264164.83	4051672.91	3.6466E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.868E-04	0.00E+00
120	ALL	264117.32	4051653.98	4.0309E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.065E-04	0.00E+00
121	ALL	264069.82	4051635.04	4.4577E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.284E-04	0.00E+00
122	ALL	264022.32	4051616.10	4.8576E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.489E-04	0.00E+00
123	ALL	263974.81	4051597.17	5.2413E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.685E-04	0.00E+00
124	ALL	263927.31	4051578.23	5.5803E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.859E-04	0.00E+00
125	ALL	263879.80	4051559.30	5.9030E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.024E-04	0.00E+00
126	ALL	263832.30	4051540.36	6.1892E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.171E-04	0.00E+00
127	ALL	263764.68	4051474.41	7.0904E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.633E-04	0.00E+00
128	ALL	263744.57	4051427.39	7.8037E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.998E-04	0.00E+00
129	ALL	263724.45	4051380.37	8.3834E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.295E-04	0.00E+00
130	ALL	263704.34	4051333.35	8.8836E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.552E-04	0.00E+00
131	ALL	263684.23	4051286.33	9.1770E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.702E-04	0.00E+00
132	ALL	263664.11	4051239.32	9.2333E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.731E-04	0.00E+00
133	ALL	263644.00	4051192.30	9.0595E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.642E-04	0.00E+00
134	ALL	263623.89	4051145.28	8.6545E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.434E-04	0.00E+00
135	ALL	264212.33	4051691.85	3.2957E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.689E-04	0.00E+00
136	ALL	264265.79	4051691.08	3.1124E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.595E-04	0.00E+00
137	ALL	264319.24	4051690.32	2.9300E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.501E-04	0.00E+00
138	ALL	264372.69	4051689.55	2.7562E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.412E-04	0.00E+00
139	ALL	264426.15	4051688.79	2.5704E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.317E-04	0.00E+00
140	ALL	264479.60	4051688.02	2.3741E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.216E-04	0.00E+00
141	ALL	264533.05	4051687.25	2.2001E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.127E-04	0.00E+00
142	ALL	264586.50	4051686.49	2.0477E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.049E-04	0.00E+00
143	ALL	264977.91	4051028.20	5.1674E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	2.648E-04	0.00E+00
144	ALL	264977.91	4050969.84	6.5994E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	3.381E-04	0.00E+00
145	ALL	264977.91	4050911.49	8.2736E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	4.239E-04	0.00E+00
146	ALL	265057.35	4051136.69	2.6635E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.365E-04	0.00E+00
147	ALL	265036.79	4051186.84	2.4137E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.237E-04	0.00E+00
148	ALL	265016.23	4051236.98	2.2155E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.135E-04	0.00E+00
149	ALL	264995.67	4051287.13	2.0587E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.055E-04	0.00E+00
150	ALL	264975.11	4051337.27	1.9343E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.911E-05	0.00E+00
151	ALL	264954.55	4051387.42	1.8361E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.407E-05	0.00E+00
152	ALL	264884.14	4051458.84	1.8980E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	9.724E-05	0.00E+00
153	ALL	264834.30	4051480.12	2.0494E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.050E-04	0.00E+00
154	ALL	264784.45	4051501.39	2.1965E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.125E-04	0.00E+00
155	ALL	264734.61	4051522.67	2.3344E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.196E-04	0.00E+00
156	ALL	264684.76	4051543.95	2.4510E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.256E-04	0.00E+00
157	ALL	264634.92	4051565.22	2.5447E-07	3.24YrCancerHighEnd InhSoilDermMMilkCrops	1.304E-04	0.00E+00

158	ALL	265077.91	4051028.20	3.6896E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.890E-04	0.00E+00
159	ALL	265077.91	4050969.84	4.5870E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.350E-04	0.00E+00
160	ALL	265077.91	4050911.49	5.6764E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.908E-04	0.00E+00
161	ALL	265156.32	4051139.20	2.0747E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.063E-04	0.00E+00
162	ALL	265134.73	4051191.85	1.8822E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.644E-05	0.00E+00
163	ALL	265113.14	4051244.51	1.7302E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.865E-05	0.00E+00
164	ALL	265091.56	4051297.16	1.6131E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.265E-05	0.00E+00
165	ALL	265069.97	4051349.81	1.5222E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.799E-05	0.00E+00
166	ALL	265048.38	4051402.46	1.4508E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.433E-05	0.00E+00
167	ALL	265026.79	4051455.11	1.3950E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.148E-05	0.00E+00
168	ALL	264952.86	4051530.11	1.4506E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.432E-05	0.00E+00
169	ALL	264900.53	4051552.45	1.5626E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.006E-05	0.00E+00
170	ALL	264848.19	4051574.79	1.6757E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.586E-05	0.00E+00
171	ALL	264795.85	4051597.13	1.7824E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.132E-05	0.00E+00
172	ALL	264743.52	4051619.47	1.8742E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.603E-05	0.00E+00
173	ALL	264691.18	4051641.81	1.9479E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.980E-05	0.00E+00
174	ALL	264638.84	4051664.15	2.0037E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.027E-04	0.00E+00
175	ALL	265177.91	4051028.20	2.7824E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.426E-04	0.00E+00
176	ALL	265177.91	4050969.84	3.3629E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.723E-04	0.00E+00
177	ALL	265177.91	4050911.49	4.0423E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.071E-04	0.00E+00
178	ALL	265177.91	4050853.13	4.8145E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.467E-04	0.00E+00
179	ALL	265177.91	4050794.78	5.6301E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.885E-04	0.00E+00
180	ALL	265177.91	4050736.42	6.4188E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.289E-04	0.00E+00
181	ALL	265177.91	4050678.07	7.1222E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.649E-04	0.00E+00
182	ALL	264799.98	4050482.53	1.9763E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.013E-03	0.00E+00
183	ALL	264805.62	4050520.94	2.2542E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.155E-03	0.00E+00
184	ALL	264798.93	4050534.68	2.4005E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.230E-03	0.00E+00
185	ALL	264810.20	4050572.04	2.5925E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.328E-03	0.00E+00
186	ALL	264801.39	4050588.60	2.7819E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.425E-03	0.00E+00
187	ALL	264823.24	4050584.72	2.5510E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.307E-03	0.00E+00
188	ALL	264808.09	4050617.49	2.8692E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.470E-03	0.00E+00
189	ALL	264836.28	4050481.48	1.8464E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.460E-04	0.00E+00
190	ALL	264857.07	4050481.48	1.7726E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.082E-04	0.00E+00
191	ALL	264854.60	4050497.33	1.8685E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.573E-04	0.00E+00
192	ALL	264859.89	4050526.58	1.9945E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.022E-03	0.00E+00
193	ALL	264842.62	4050547.02	2.2014E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.128E-03	0.00E+00
194	ALL	264858.83	4050545.96	2.0919E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.072E-03	0.00E+00
195	ALL	264840.51	4050513.89	2.0270E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.039E-03	0.00E+00
196	ALL	264857.42	4050563.93	2.1792E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.117E-03	0.00E+00
197	ALL	264858.13	4050578.38	2.2302E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.143E-03	0.00E+00
198	ALL	264855.66	4050618.55	2.3717E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.215E-03	0.00E+00
199	ALL	264913.45	4050475.48	1.5476E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.929E-04	0.00E+00
200	ALL	264897.94	4050515.30	1.7557E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.995E-04	0.00E+00
201	ALL	264902.88	4050550.89	1.8451E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.454E-04	0.00E+00
202	ALL	264914.15	4050574.50	1.8338E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.395E-04	0.00E+00
203	ALL	264915.92	4050587.89	1.8457E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.456E-04	0.00E+00
204	ALL	264907.11	4050613.97	1.9390E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.935E-04	0.00E+00
205	ALL	264961.02	4050476.89	1.3929E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.137E-04	0.00E+00
206	ALL	264961.73	4050498.74	1.4425E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.391E-04	0.00E+00
207	ALL	264951.86	4050514.95	1.5174E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.774E-04	0.00E+00
208	ALL	264961.73	4050531.87	1.5088E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.731E-04	0.00E+00
209	ALL	264957.85	4050558.65	1.5680E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.034E-04	0.00E+00
210	ALL	264959.96	4050599.17	1.5923E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.158E-04	0.00E+00
211	ALL	264956.44	4050615.73	1.6164E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.282E-04	0.00E+00
212	ALL	264799.23	4050449.74	1.7279E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.853E-04	0.00E+00
213	ALL	264797.16	4050424.45	1.5516E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.950E-04	0.00E+00
214	ALL	264797.58	4050399.16	1.3868E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.106E-04	0.00E+00
215	ALL	264804.21	4050356.46	1.1458E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.871E-04	0.00E+00
216	ALL	264804.62	4050325.78	1.0004E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.126E-04	0.00E+00
217	ALL	264795.50	4050310.03	9.2896E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.760E-04	0.00E+00
218	ALL	264796.75	4050295.10	8.6995E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.457E-04	0.00E+00
219	ALL	264849.81	4050421.13	1.4601E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.481E-04	0.00E+00
220	ALL	264843.59	4050404.97	1.3820E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.081E-04	0.00E+00
221	ALL	264849.40	4050390.04	1.2987E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.654E-04	0.00E+00
222	ALL	264849.40	4050370.14	1.2018E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.157E-04	0.00E+00
223	ALL	264851.47	4050350.24	1.1101E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.688E-04	0.00E+00
224	ALL	264845.25	4050332.41	1.0346E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.301E-04	0.00E+00
225	ALL	264848.15	4050314.59	9.6265E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.932E-04	0.00E+00
226	ALL	264842.76	4050292.61	8.7948E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.506E-04	0.00E+00
227	ALL	264905.78	4050443.11	1.4454E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.406E-04	0.00E+00
228	ALL	264904.54	4050427.35	1.3844E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	7.093E-04	0.00E+00
229	ALL	264908.27	4050399.58	1.2660E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.486E-04	0.00E+00
230	ALL	264899.15	4050377.60	1.1911E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.102E-04	0.00E+00
231	ALL	264902.46	4050355.63	1.1026E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.649E-04	0.00E+00
232	ALL	264897.90	4050342.36	1.0561E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.411E-04	0.00E+00
233	ALL	264895.42	4050320.81	9.7908E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.016E-04	0.00E+00
234	ALL	264894.59	4050281.42	8.4794E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.345E-04	0.00E+00
235	ALL	264942.26	4050439.79	1.3405E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.868E-04	0.00E+00
236	ALL	264949.31	4050402.89	1.2071E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.184E-04	0.00E+00
237	ALL	264951.80	4050382.16	1.1374E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.827E-04	0.00E+00
238	ALL	264951.38	4050340.71	1.0096E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.173E-04	0.00E+00
239	ALL	264938.95	4050317.49	9.4773E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.856E-04	0.00E+00
240	ALL	264948.90	4050302.98	9.0005E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.611E-04	0.00E+00
241	ALL	264930.24	4050282.25	8.4625E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.336E-04	0.00E+00
242	ALL	264955.94	4050279.35	8.3250E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.265E-04	0.00E+00
243	ALL	265016.98	4050428.89	1.1327E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.804E-04	0.00E+00
244	ALL	265040.61	4050433.03	1.0866E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.567E-04	0.00E+00
245	ALL	265031.00	4050381.17	1.0102E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.176E-04	0.00E+00
246	ALL	265030.24	4050361.28	9.7073E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.974E-04	0.00E+00
247	ALL	265000.04	4050360.88	1.0104E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.177E-04	0.00E+00
248	ALL	265031.30	4050326.39	8.9562E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.589E-04	0.00E+00
249	ALL	265001.09	4050325.99	9.2489E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.739E-04	0.00E+00
250	ALL	265028.12	4050307.01	8.5715E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.392E-04	0.00E+00
251	ALL	264997.92	4050306.61	8.8062E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.512E-04	0.00E+00
252	ALL	265000.34	4050342.40	9.6529E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.946E-04	0.00E+00
253	ALL	264992.94	4050282.14	8.2470E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.225E-04	0.00E+00
254	ALL	265032.05	4050278.62	7.9395E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.068E-04	0.00E+00
255	ALL	265076.46	4050363.90	9.0776E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.651E-04	0.00E+00
256	ALL	265098.66	4050363.19	8.7403E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.478E-04	0.00E+00
257	ALL	265119.10	4050364.60	8.4607E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.335E-04	0.00E+00
258	ALL	265138.13	4050368.83	8.2302E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.217E-04	0.00E+00
259	ALL	265157.51	4050348.04	7.7496E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.971E-04	0.00E+00
260	ALL	265154.34	4050323.02	7.5170E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.851E-04	0.00E+00
261	ALL	265135.66	4050309.98	7.5630E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.875E-04	0.00E+00
262	ALL	265112.40	4050309.98	7.8054E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.999E-04	0.00E+00
263	ALL	265097.25	4050311.04	7.9776E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.087E-04	0.00E+00
264	ALL	265075.40	4050317.03	8.3032E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.254E-04	0.00E+00
265	ALL	265073.28	4050276.15	7.6022E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.895E-04	0.00E+00
266	ALL	265093.02	4050275.09	7.4378E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.811E-04	0.00E+00
267	ALL	265113.81	4050277.91	7.3184E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.750E-04	0.00E+00
268	ALL	265129.32	4050275.09	7.1515E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.664E-04	0.00E+00
269	ALL	265155.04	4050273.33	6.9165E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.544E-04	0.00E+00
270	ALL	264829.20	4050178.82	5.5049E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.820E-04	0.00E+00
271	ALL	264847.25	4050177.85	5.5800E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.859E-04	0.00E+00
272	ALL	264867.73	4050177.85	5.6775E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.909E-04	0.00E+00
273	ALL	264891.64	4050175.41	5.7241E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.933E-04	0.00E+00
274	ALL	264905.29	4050180.29	5.8746E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.010E-04	0.00E+00
275	ALL	264890.66	4050227.12	6.9252E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.548E-04	0.00E+00
276	ALL	264874.56	4050223.70	6.7868E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.477E-04	0.00E+00
277	ALL	264676.03	4050241.75	5.8352E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.990E-04	0.00E+00
278	ALL	264810.66	4050214.92	6.2467E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.201E-04	0.00E+00
279	ALL	264827.73	4050233.95	6.8572E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.513E-04	0.00E+00
280	ALL	264853.59	4050231.99	6.9266E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.549E-04	0.00E+00
281	ALL	264458.11	4050150.79	2.6375E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.351E-04	0.00E+00
282	ALL	264456.39	4050122.10	2.3974E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.228E-04	0.00E+00
283	ALL	264254.94	4050226.55	2.5925E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.328E-04	0.00E+00
284	ALL	264257.81	4050207.61	2.4573E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.259E-04	0.00E+00
285	ALL	264147.62	4050217.94	2.3141E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.186E-04	0.00E+00
286	ALL	263877.88	4050316.53	2.6056E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.335E-04	0.00E+00
287	ALL	264426.28	4051615.26	3.1186E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.598E-04	0.00E+00
288	ALL	264464.84	4051637.66	2.7581E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.413E-04	0.00E+00
289	ALL	264602.52	4051606.56	2.4191E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.239E-04	0.00E+00
290	ALL	264435.81	4051528.18	4.0684E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.085E-04	0.00E+00
291	ALL	264454.48	4051512.83	4.1591E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.131E-04	0.00E+00
292	ALL	264558.56	4051508.69	3.4492E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.767E-04	0.00E+00
293	ALL	264586.35	4051559.69	2.8121E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.441E-04	0.00E+00
294	ALL	263662.67	4051098.35	9.3580E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.795E-04	0.00E+00
295	ALL	263570.95	4051086.16	7.3806E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.782E-04	0.00E+00
296	ALL	263573.88	4051045.66	7.1439E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.660E-04	0.00E+00
297	ALL	263663.65	4051078.35	9.2761E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.753E-04	0.00E+00
298	ALL	263666.58	4051041.76	9.0698E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.647E-04	0.00E+00
299	ALL	264008.03	4050311.14	2.7567E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.412E-04	0.00E+00
300	ALL	264021.02	4050310.63	2.7762E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.422E-04	0.00E+00
301	ALL	264045.21	4050314.20	2.8550E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.463E-04	0.00E+00
302	ALL	264053.37	4050304.01	2.7815E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.425E-04	0.00E+00
303	ALL	264082.15	4050301.97	2.8236E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.447E-04	0.00E+00
304	ALL	264093.86	4050302.99	2.8585E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.465E-04	0.00E+00
305	ALL	264120.86	4050360.81	3.5608E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.824E-04	0.00E+00
306	ALL	264128.56	4050391.54	4.0316E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	2.066E-04	0.00E+00
307	ALL	264029.80	4050507.97	5.9092E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	3.028E-04	0.00E+00
308	ALL	264060.11	4050558.41	7.9816E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.089E-04	0.00E+00
309	ALL	264022.92	4050662.35	1.2624E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	6.468E-04	0.00E+00
310	ALL	264008.91	4050634.58	1.0419E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	5.338E-04	0.00E+00
311	ALL	264050.98	4050597.19	9.6726E-07	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	4.956E-04	0.00E+00
312	ALL	264835.64	4050834.29	2.1688E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.110E-03	0.00E+00
313	ALL	264860.90	4050818.21	1.9641E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.006E-03	0.00E+00
314	ALL	264861.48	4050792.94	2.0804E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	1.066E-03	0.00E+00
315	ALL	264883.30	4050777.44	1.9220E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.847E-04	0.00E+00
316	ALL	264905.70	4050735.52	1.8539E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	9.499E-04	0.00E+00
317	ALL	264928.09	4050751.02	1.6258E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.330E-04	0.00E+00
318	ALL	264937.28	4050730.35	1.6127E-06	3.24YrCancerHighEnd	InhSoilDermMMilkCrops	8.263E-04	0.00E+00

Off-site Pipeline Improvements

Estimation of Annual Onsite Construction Emissions

Start of Construction	6/25/2024	
End of Construction	10/3/2024	**Total**
Number of Days	100	100
Number of Hours	2,400	2,400

Size of the construction area source: **19,704.3** **sq-meters**

Year	On-site Construction Activity	Unmitigated On-site DPM (pounds)	Unmitigated Off-site DPM (pounds)
2024	Linear, Grubbing & Land Clearing	1.71477	0.33595891
2024	Linear, Grading & Excavation	10.94329	0.02407095
2024	Linear, Drainage, Utilities, & Sub-Grade	3.79926	0.06318625
2024	Linear, Paving	2.72650	0.00827439

Total Unmitigated DPM (On-site) 1.918E+01 pounds

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2

Average Emission for AREA1	8.709E+03	grams
	1.008E-03	grams/sec
	5.116E-08	grams/m2-sec

Pounds/Construction Period	1.918E+01
Pounds/Day	1.918E-01
Pounds/Hour	7.993E-03
Pounds/Year	7.002E+01
Years	0.27397

Off-site Pipeline Improvements

Estimation of Annual Offsite Construction DPM Emissions (Unmitigated)

Start of Construction		6/25/2024			
End of Construction		10/3/2024			**Total**
Number of Days		100			100
Number of Hours		2,400			2,400
	2023	2023	2023	2024	
Construction Trip Type	Linear, Grubbing & Land Clearing	Linear, Grading & Excavation	Linear, Drainage, Utilities, & Sub-Grade	Linear, Paving	**Total (pounds)**
Total (pounds)	0.33596	0.02407	0.06319	0.008274389	0.43149

	Haul Truck	**Vendor Truck**	**Worker**	**Total**
Linear, Grubbing & Land Clearing	35.71	2.00	4.00	41.71
Linear, Grading & Excavation	0.00	2.00	4.00	6.00
Linear, Drainage, Utilities, & Sub-Grade	0.00	8.00	4.00	12.00
Linear, Paving	0.00	2.00	4.00	6.00
Total	**35.71**	**14.00**	**16.00**	**65.71**

	Haul Truck (pounds)	**Vendor Truck (pounds)**	**Worker (pounds)**	**Total (pounds)**
Total DPM	2.345E-01	9.193E-02	1.051E-01	4.315E-01

Average Emissions				
Grams	1.065E+02	4.173E+01	4.770E+01	
Grams/sec	1.232E-05	4.830E-06	5.520E-06	
Default Distance	20	8.53	11.41	Default Vehicle Travel Distance in CalEEMod

Vehicle Travel Distances in the Construction HRA (miles)				
Road Segment 1 (mi)	0.45	0.45	0.45	miles
Road Segment 2 (mi)	0.57	0.57	0.57	miles
Road Segment 3 (mi)	0.33	0.33	0.33	miles
Road Segment 4 (mi)	0.31	0.31	0.31	miles
Road Segment 5 (mi)	0.50	0.50	0.50	miles
Trip Distribution (percent)				
Off-site Road Segment 1	20.0%	20.0%	20.0%	off-site
Off-site Road Segment 2	20.0%	20.0%	20.0%	off-site
Off-site Road Segment 3	20.0%	20.0%	20.0%	off-site
Off-site Road Segment 4	20.0%	20.0%	20.0%	on-site
Off-site Road Segment 5	20.0%	20.0%	20.0%	on-site

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Off-site Road Segment 1	5.512E-08	5.066E-08	4.328E-08	1.491E-07
Off-site Road Segment 2	7.052E-08	6.481E-08	5.538E-08	1.907E-07
Off-site Road Segment 3	4.025E-08	3.486E-08	3.161E-08	1.067E-07
Off-site Road Segment 4	3.792E-08	3.486E-08	2.978E-08	1.026E-07
Off-site Road Segment 5	6.186E-08	3.486E-08	4.857E-08	1.453E-07

	Grams/sec	Pounds/Hour	Pounds/Day	Pounds/year	Tons/year
Off-site Road Segment 1	1.491E-07	1.183E-06	2.839E-05	1.036E-02	5.182E-06
Off-site Road Segment 2	1.907E-07	1.514E-06	3.633E-05	1.326E-02	6.630E-06
Off-site Road Segment 3	1.067E-07	8.470E-07	2.033E-05	2.033E-03	1.016E-06
Off-site Road Segment 4	1.026E-07	8.140E-07	1.954E-05	1.954E-03	9.768E-07
Off-site Road Segment 5	1.453E-07	1.153E-06	2.767E-05	2.767E-03	1.384E-06

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

Off-site Pipeline Improvements (Unmitigated Construction)

	RISK SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
Maximum Risk	1.3132E-06	1.31	4.1772E-03	0.00E+00

	X	Y
MEI UTM	265384.24	4050226.48
Lat/Long	36°34'07.3"N	119°37'18.6"W
Receptor #	339	

*HARP - HRACalc v22118 5/29/2024 1:13:28 PM - Cancer Risk - Input File: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con UnmitHRAInput.hra
*HARP - HRACalc v22118 5/29/2024 1:13:28 PM - Chronic Risk - Input File: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con UnmitHRAInput.hra
*HARP - HRACalc v22118 5/29/2024 1:13:28 PM - Acute Risk - Input File: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con UnmitHRAInput.hra

REC	GRP	X	Y	RISK_SUM	SCENARIO	MAXHI NonCancerChronic	MAXHI Acute
1	ALL	264814.83	4050642.58	6.6457E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.114E-04	0.00E+00
2	ALL	264806.10	4050501.48	1.1137E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.543E-04	0.00E+00
3	ALL	264802.66	4050552.80	9.1224E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.902E-04	0.00E+00
4	ALL	264856.30	4050593.92	7.3202E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.329E-04	0.00E+00
5	ALL	264854.46	4050637.24	6.3278E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.013E-04	0.00E+00
6	ALL	264803.61	4050383.01	2.2407E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.128E-04	0.00E+00
7	ALL	264852.72	4050443.86	1.4331E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.559E-04	0.00E+00
8	ALL	264897.66	4050487.38	1.0959E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.486E-04	0.00E+00
9	ALL	264903.98	4050532.24	8.8091E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.802E-04	0.00E+00
10	ALL	264956.02	4050583.56	6.6266E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.108E-04	0.00E+00
11	ALL	264957.85	4050630.40	5.4977E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.749E-04	0.00E+00
12	ALL	264611.68	4050195.99	4.6478E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.479E-03	0.00E+00
13	ALL	264656.79	4050213.78	6.1913E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.969E-03	0.00E+00
14	ALL	264701.90	4050231.57	8.9587E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.850E-03	0.00E+00
15	ALL	264799.58	4050276.69	1.0884E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.462E-03	0.00E+00
16	ALL	264844.27	4050277.07	1.0663E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.392E-03	0.00E+00
17	ALL	264894.76	4050302.33	6.2383E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.984E-03	0.00E+00
18	ALL	264946.24	4050365.22	2.5077E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.977E-04	0.00E+00
19	ALL	264956.76	4050418.62	1.5950E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.074E-04	0.00E+00
20	ALL	265000.03	4050427.25	1.4661E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.664E-04	0.00E+00
21	ALL	265002.67	4050499.30	9.3360E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.970E-04	0.00E+00
22	ALL	265021.48	4050543.99	7.2378E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.302E-04	0.00E+00
23	ALL	265040.29	4050588.69	5.6717E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.804E-04	0.00E+00
24	ALL	265059.10	4050633.38	4.5626E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.451E-04	0.00E+00
25	ALL	264566.58	4050178.20	3.6994E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.177E-03	0.00E+00
26	ALL	264512.51	4050179.42	3.7831E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.203E-03	0.00E+00
27	ALL	264458.45	4050180.65	3.8409E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.222E-03	0.00E+00
28	ALL	264404.38	4050181.88	3.8420E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.222E-03	0.00E+00
29	ALL	264350.31	4050183.10	3.7164E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.182E-03	0.00E+00
30	ALL	264296.25	4050184.33	3.3097E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.053E-03	0.00E+00
31	ALL	264242.18	4050185.55	2.3943E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.616E-04	0.00E+00
32	ALL	264188.12	4050186.78	1.3916E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.427E-04	0.00E+00
33	ALL	264612.43	4050097.20	1.7400E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.535E-04	0.00E+00
34	ALL	264660.54	4050116.18	2.0034E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.373E-04	0.00E+00
35	ALL	264708.65	4050135.16	2.3149E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.364E-04	0.00E+00
36	ALL	264811.22	4050192.14	4.2424E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.350E-03	0.00E+00
37	ALL	264853.00	4050192.09	4.2647E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.357E-03	0.00E+00
38	ALL	264911.84	4050226.19	8.2977E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.640E-03	0.00E+00
39	ALL	264949.22	4050230.05	9.2322E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.937E-03	0.00E+00
40	ALL	265013.17	4050278.72	9.8104E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.121E-03	0.00E+00
41	ALL	265037.47	4050344.37	3.1235E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.936E-04	0.00E+00
42	ALL	265000.79	4050380.76	2.1326E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.784E-04	0.00E+00
43	ALL	265137.78	4050582.73	4.9152E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.564E-04	0.00E+00
44	ALL	265157.85	4050630.40	3.8257E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.217E-04	0.00E+00
45	ALL	264564.31	4050078.22	1.4983E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.766E-04	0.00E+00
46	ALL	264510.25	4050079.45	1.4629E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.654E-04	0.00E+00
47	ALL	264456.18	4050080.68	1.3903E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.423E-04	0.00E+00
48	ALL	264402.11	4050081.90	1.2668E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.030E-04	0.00E+00
49	ALL	264348.05	4050083.13	1.0857E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.454E-04	0.00E+00
50	ALL	264293.98	4050084.35	8.6704E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.758E-04	0.00E+00
51	ALL	264239.92	4050085.58	6.7011E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.132E-04	0.00E+00
52	ALL	264185.85	4050086.80	5.4378E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.730E-04	0.00E+00
53	ALL	264051.98	4050628.06	2.3439E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.456E-04	0.00E+00
54	ALL	264064.03	4050609.99	2.5857E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.225E-04	0.00E+00
55	ALL	263998.93	4050606.77	1.6813E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.348E-04	0.00E+00
56	ALL	264015.34	4050565.60	1.8587E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.913E-04	0.00E+00
57	ALL	264072.34	4050506.66	2.8372E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.025E-04	0.00E+00
58	ALL	264036.03	4050455.24	2.1852E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.951E-04	0.00E+00
59	ALL	264117.44	4050346.96	5.3964E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.717E-03	0.00E+00
60	ALL	264162.34	4050317.96	1.0886E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.463E-03	0.00E+00
61	ALL	263719.56	4050641.53	6.1851E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.968E-04	0.00E+00
62	ALL	263739.65	4050591.11	6.3540E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.021E-04	0.00E+00
63	ALL	263759.73	4050540.69	6.4602E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.055E-04	0.00E+00
64	ALL	263779.81	4050490.27	6.4666E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.057E-04	0.00E+00
65	ALL	263799.90	4050439.86	6.3338E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.015E-04	0.00E+00
66	ALL	263819.98	4050389.44	6.0384E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.921E-04	0.00E+00
67	ALL	263875.69	4050330.54	6.2810E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.998E-04	0.00E+00
68	ALL	264138.40	4050208.53	1.2768E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.062E-04	0.00E+00
69	ALL	263699.48	4050691.94	5.9777E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.902E-04	0.00E+00
70	ALL	263700.09	4050749.84	6.0319E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.919E-04	0.00E+00
71	ALL	263700.70	4050807.73	6.0249E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.917E-04	0.00E+00

72	ALL	263701.32	4050865.63	5.9700E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.899E-04	0.00E+00
73	ALL	263701.93	4050923.52	5.8734E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.868E-04	0.00E+00
74	ALL	263702.54	4050981.41	5.7437E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.827E-04	0.00E+00
75	ALL	263703.16	4051039.31	5.5811E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.775E-04	0.00E+00
76	ALL	263703.77	4051097.20	5.3710E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.709E-04	0.00E+00
77	ALL	263620.57	4050640.06	4.8375E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.539E-04	0.00E+00
78	ALL	263641.66	4050587.13	4.8693E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.549E-04	0.00E+00
79	ALL	263662.75	4050534.19	4.8325E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.537E-04	0.00E+00
80	ALL	263683.84	4050481.25	4.7154E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.500E-04	0.00E+00
81	ALL	263704.93	4050428.31	4.5177E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.437E-04	0.00E+00
82	ALL	263726.01	4050375.37	4.2523E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.353E-04	0.00E+00
83	ALL	263747.10	4050322.44	3.9481E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.256E-04	0.00E+00
84	ALL	263820.40	4050246.66	3.9260E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.249E-04	0.00E+00
85	ALL	263872.61	4050223.82	4.2625E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.356E-04	0.00E+00
86	ALL	263924.81	4050200.99	4.6336E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.474E-04	0.00E+00
87	ALL	263977.02	4050178.15	4.9948E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.589E-04	0.00E+00
88	ALL	264029.23	4050155.31	5.2472E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.669E-04	0.00E+00
89	ALL	264081.44	4050132.48	5.3507E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.702E-04	0.00E+00
90	ALL	264133.64	4050109.64	5.3762E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.710E-04	0.00E+00
91	ALL	263599.48	4050693.00	4.7522E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.512E-04	0.00E+00
92	ALL	263600.10	4050750.90	4.8430E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.541E-04	0.00E+00
93	ALL	263600.71	4050808.79	4.8680E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.549E-04	0.00E+00
94	ALL	263601.32	4050866.68	4.8435E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.541E-04	0.00E+00
95	ALL	263601.94	4050924.58	4.7821E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.521E-04	0.00E+00
96	ALL	263602.55	4050982.47	4.6934E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.493E-04	0.00E+00
97	ALL	263603.16	4051040.37	4.5835E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.458E-04	0.00E+00
98	ALL	263603.77	4051098.26	4.4409E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.413E-04	0.00E+00
99	ALL	264166.37	4051574.11	1.5902E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.058E-05	0.00E+00
100	ALL	264121.83	4051556.35	1.7467E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.556E-05	0.00E+00
101	ALL	264077.30	4051538.60	1.9214E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.112E-05	0.00E+00
102	ALL	264032.76	4051520.85	2.1009E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.683E-05	0.00E+00
103	ALL	263988.22	4051503.10	2.3207E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.382E-05	0.00E+00
104	ALL	263943.69	4051485.34	2.5474E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.103E-05	0.00E+00
105	ALL	263899.15	4051467.59	2.7596E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.778E-05	0.00E+00
106	ALL	263835.76	4051405.76	3.3677E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.071E-04	0.00E+00
107	ALL	263816.90	4051361.68	3.8457E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.223E-04	0.00E+00
108	ALL	263798.05	4051317.60	4.3438E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.382E-04	0.00E+00
109	ALL	263779.19	4051273.52	4.7802E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.521E-04	0.00E+00
110	ALL	263760.34	4051229.44	5.1027E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.623E-04	0.00E+00
111	ALL	263741.48	4051185.36	5.2944E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.684E-04	0.00E+00
112	ALL	263722.62	4051141.28	5.3695E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.708E-04	0.00E+00
113	ALL	264210.90	4051591.86	1.4413E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.585E-05	0.00E+00
114	ALL	264371.26	4051589.56	1.2180E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.874E-05	0.00E+00
115	ALL	264424.71	4051588.80	1.1486E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.654E-05	0.00E+00
116	ALL	264478.17	4051588.03	1.0845E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.450E-05	0.00E+00
117	ALL	264531.62	4051587.26	1.0203E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.246E-05	0.00E+00
118	ALL	264585.07	4051586.50	9.5789E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.047E-05	0.00E+00
119	ALL	264164.83	4051672.91	1.2747E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.055E-05	0.00E+00
120	ALL	264117.32	4051653.98	1.3952E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.438E-05	0.00E+00
121	ALL	264069.82	4051635.04	1.5218E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.841E-05	0.00E+00
122	ALL	264022.32	4051616.10	1.6541E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.262E-05	0.00E+00
123	ALL	263974.81	4051597.17	1.7973E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.717E-05	0.00E+00
124	ALL	263927.31	4051578.23	1.9527E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.212E-05	0.00E+00
125	ALL	263879.80	4051559.30	2.1145E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.726E-05	0.00E+00
126	ALL	263832.30	4051540.36	2.2688E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.217E-05	0.00E+00
127	ALL	263764.68	4051474.41	2.7221E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.659E-05	0.00E+00
128	ALL	263744.57	4051427.39	3.0841E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.811E-05	0.00E+00
129	ALL	263724.45	4051380.37	3.4524E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.098E-04	0.00E+00
130	ALL	263704.34	4051333.35	3.8069E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.211E-04	0.00E+00
131	ALL	263684.23	4051286.33	4.0895E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.301E-04	0.00E+00
132	ALL	263664.11	4051239.32	4.2821E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.362E-04	0.00E+00
133	ALL	263644.00	4051192.30	4.3984E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.399E-04	0.00E+00
134	ALL	263623.89	4051145.28	4.4445E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.414E-04	0.00E+00
135	ALL	264212.33	4051691.85	1.1685E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.717E-05	0.00E+00
136	ALL	264265.79	4051691.08	1.1079E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.524E-05	0.00E+00
137	ALL	264319.24	4051690.32	1.0564E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.361E-05	0.00E+00
138	ALL	264372.69	4051689.55	1.0108E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.215E-05	0.00E+00
139	ALL	264426.15	4051688.79	9.6784E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.079E-05	0.00E+00
140	ALL	264479.60	4051688.02	9.2375E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.938E-05	0.00E+00
141	ALL	264533.05	4051687.25	8.7603E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.787E-05	0.00E+00
142	ALL	264586.50	4051686.49	8.3008E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.641E-05	0.00E+00
143	ALL	264977.91	4051028.20	1.5987E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.086E-05	0.00E+00
144	ALL	264977.91	4050969.84	1.8638E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.929E-05	0.00E+00
145	ALL	264977.91	4050911.49	2.1815E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.939E-05	0.00E+00
146	ALL	265057.35	4051136.69	1.1013E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.503E-05	0.00E+00
147	ALL	265036.79	4051186.84	1.0274E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.268E-05	0.00E+00
148	ALL	265016.23	4051236.98	9.6272E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.062E-05	0.00E+00
149	ALL	264995.67	4051287.13	9.0557E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.881E-05	0.00E+00
150	ALL	264975.11	4051337.27	8.5516E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.720E-05	0.00E+00
151	ALL	264954.55	4051387.42	8.1169E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.582E-05	0.00E+00
152	ALL	264884.14	4051458.84	7.9634E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.533E-05	0.00E+00
153	ALL	264834.30	4051480.12	8.2002E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.609E-05	0.00E+00
154	ALL	264784.45	4051501.39	8.4438E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.686E-05	0.00E+00
155	ALL	264734.61	4051522.67	8.7152E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.772E-05	0.00E+00
156	ALL	264684.76	4051543.95	8.9996E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.863E-05	0.00E+00
157	ALL	264634.92	4051565.22	9.2918E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.956E-05	0.00E+00
158	ALL	265077.91	4051028.20	1.3628E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.335E-05	0.00E+00
159	ALL	265077.91	4050969.84	1.5736E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.006E-05	0.00E+00
160	ALL	265077.91	4050911.49	1.8310E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.824E-05	0.00E+00
161	ALL	265156.32	4051139.20	9.5861E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.049E-05	0.00E+00
162	ALL	265134.73	4051191.85	8.9451E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.845E-05	0.00E+00

163	ALL	265113.14	4051244.51	8.3916E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.669E-05	0.00E+00
164	ALL	265091.56	4051297.16	7.9149E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.518E-05	0.00E+00
165	ALL	265069.97	4051349.81	7.5023E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.387E-05	0.00E+00
166	ALL	265048.38	4051402.46	7.1424E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.272E-05	0.00E+00
167	ALL	265026.79	4051455.11	6.8346E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.174E-05	0.00E+00
168	ALL	264952.86	4051530.11	6.7460E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.146E-05	0.00E+00
169	ALL	264900.53	4051552.45	6.9481E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.210E-05	0.00E+00
170	ALL	264848.19	4051574.79	7.1570E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.277E-05	0.00E+00
171	ALL	264795.85	4051597.13	7.3792E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.347E-05	0.00E+00
172	ALL	264743.52	4051619.47	7.6114E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.421E-05	0.00E+00
173	ALL	264691.18	4051641.81	7.8510E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.497E-05	0.00E+00
174	ALL	264638.84	4051664.15	8.0865E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.572E-05	0.00E+00
175	ALL	265177.91	4051028.20	1.1689E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.718E-05	0.00E+00
176	ALL	265177.91	4050969.84	1.3338E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.243E-05	0.00E+00
177	ALL	265177.91	4050911.49	1.5332E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.877E-05	0.00E+00
178	ALL	265177.91	4050853.13	1.7837E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.674E-05	0.00E+00
179	ALL	265177.91	4050794.78	2.1004E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.681E-05	0.00E+00
180	ALL	265177.91	4050736.42	2.5064E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.973E-05	0.00E+00
181	ALL	265177.91	4050678.07	3.0526E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.710E-05	0.00E+00
182	ALL	264799.98	4050482.53	1.2194E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.879E-04	0.00E+00
183	ALL	264805.62	4050520.94	1.0272E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.267E-04	0.00E+00
184	ALL	264798.93	4050534.68	9.8053E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.119E-04	0.00E+00
185	ALL	264810.20	4050572.04	8.4326E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.682E-04	0.00E+00
186	ALL	264801.39	4050588.60	8.0687E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.567E-04	0.00E+00
187	ALL	264823.24	4050584.72	7.9235E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.521E-04	0.00E+00
188	ALL	264808.09	4050617.49	7.2703E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.313E-04	0.00E+00
189	ALL	264836.28	4050481.48	1.1877E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.778E-04	0.00E+00
190	ALL	264857.07	4050481.48	1.1675E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.714E-04	0.00E+00
191	ALL	264854.60	4050497.33	1.0841E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.449E-04	0.00E+00
192	ALL	264859.89	4050526.58	9.4680E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.012E-04	0.00E+00
193	ALL	264842.62	4050547.02	8.8801E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.825E-04	0.00E+00
194	ALL	264858.83	4050545.96	8.7488E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.783E-04	0.00E+00
195	ALL	264840.51	4050513.89	1.0201E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.245E-04	0.00E+00
196	ALL	264857.42	4050563.93	8.1665E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.598E-04	0.00E+00
197	ALL	264858.13	4050578.38	7.7267E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.458E-04	0.00E+00
198	ALL	264855.66	4050618.55	6.7237E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.139E-04	0.00E+00
199	ALL	264913.45	4050475.48	1.1514E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.663E-04	0.00E+00
200	ALL	264897.94	4050515.30	9.5715E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.045E-04	0.00E+00
201	ALL	264902.88	4050550.89	8.1379E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.589E-04	0.00E+00
202	ALL	264914.15	4050574.50	7.2801E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.316E-04	0.00E+00
203	ALL	264915.92	4050587.89	6.8867E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.191E-04	0.00E+00
204	ALL	264907.11	4050613.97	6.3199E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.010E-04	0.00E+00
205	ALL	264961.02	4050476.89	1.0997E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.498E-04	0.00E+00
206	ALL	264961.73	4050498.74	9.7580E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.104E-04	0.00E+00
207	ALL	264951.86	4050514.95	9.0749E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.887E-04	0.00E+00
208	ALL	264961.73	4050531.87	8.2703E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.631E-04	0.00E+00
209	ALL	264957.85	4050558.65	7.3508E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.338E-04	0.00E+00
210	ALL	264959.96	4050599.17	6.1841E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.967E-04	0.00E+00
211	ALL	264956.44	4050615.73	5.8262E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.853E-04	0.00E+00
212	ALL	264799.23	4050449.74	1.4381E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.575E-04	0.00E+00
213	ALL	264797.16	4050424.45	1.6675E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.304E-04	0.00E+00
214	ALL	264797.58	4050399.16	1.9792E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.296E-04	0.00E+00
215	ALL	264804.21	4050356.46	2.8825E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.169E-04	0.00E+00
216	ALL	264804.62	4050325.78	4.3402E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.381E-03	0.00E+00
217	ALL	264795.50	4050310.03	5.8441E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.859E-03	0.00E+00
218	ALL	264796.75	4050295.10	7.9933E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.543E-03	0.00E+00
219	ALL	264849.81	4050421.13	1.6513E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.253E-04	0.00E+00
220	ALL	264843.59	4050404.97	1.8510E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.888E-04	0.00E+00
221	ALL	264849.40	4050390.04	2.0687E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.581E-04	0.00E+00
222	ALL	264849.40	4050370.14	2.4583E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.820E-04	0.00E+00
223	ALL	264851.47	4050350.24	3.0178E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.600E-04	0.00E+00
224	ALL	264845.25	4050332.41	3.8090E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.212E-03	0.00E+00
225	ALL	264848.15	4050314.59	5.0583E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.609E-03	0.00E+00
226	ALL	264842.76	4050292.61	8.0986E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.576E-03	0.00E+00
227	ALL	264905.78	4050443.11	1.3934E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.433E-04	0.00E+00
228	ALL	264904.54	4050427.35	1.5412E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.903E-04	0.00E+00
229	ALL	264908.27	4050399.58	1.8745E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.963E-04	0.00E+00
230	ALL	264899.15	4050377.60	2.2569E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.179E-04	0.00E+00
231	ALL	264902.46	4050355.63	2.7957E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.893E-04	0.00E+00
232	ALL	264897.90	4050342.36	3.2616E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.038E-03	0.00E+00
233	ALL	264895.42	4050320.81	4.4362E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.411E-03	0.00E+00
234	ALL	264894.59	4050281.42	9.8822E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.144E-03	0.00E+00
235	ALL	264942.26	4050439.79	1.3923E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.429E-04	0.00E+00
236	ALL	264949.31	4050402.89	1.7993E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.724E-04	0.00E+00
237	ALL	264951.80	4050382.16	2.1343E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.789E-04	0.00E+00
238	ALL	264951.38	4050340.71	3.2964E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.049E-03	0.00E+00
239	ALL	264938.95	4050317.49	4.6270E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.472E-03	0.00E+00
240	ALL	264948.90	4050302.98	6.0188E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.915E-03	0.00E+00
241	ALL	264930.24	4050282.25	9.6176E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.059E-03	0.00E+00
242	ALL	264955.94	4050279.35	9.9377E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.161E-03	0.00E+00
243	ALL	265016.98	4050428.89	1.4343E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.563E-04	0.00E+00
244	ALL	265040.61	4050433.03	1.3702E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.359E-04	0.00E+00
245	ALL	265031.00	4050381.17	2.1058E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.698E-04	0.00E+00
246	ALL	265030.24	4050361.28	2.5710E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.178E-04	0.00E+00
247	ALL	265000.04	4050360.88	2.5967E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.260E-04	0.00E+00
248	ALL	265031.30	4050326.39	3.9895E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.269E-03	0.00E+00
249	ALL	265001.09	4050325.99	4.0207E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.279E-03	0.00E+00
250	ALL	265028.12	4050307.01	5.5154E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.754E-03	0.00E+00
251	ALL	264997.92	4050306.61	5.5575E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.768E-03	0.00E+00
252	ALL	265000.34	4050342.40	3.2140E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.022E-03	0.00E+00
253	ALL	264992.94	4050282.14	9.2166E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.932E-03	0.00E+00

254	ALL	265032.05	4050278.62	9.8681E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.139E-03	0.00E+00
255	ALL	265076.46	4050363.90	2.4700E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.857E-04	0.00E+00
256	ALL	265098.66	4050363.19	2.4705E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.859E-04	0.00E+00
257	ALL	265119.10	4050364.60	2.4105E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.668E-04	0.00E+00
258	ALL	265138.13	4050368.83	2.2758E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.239E-04	0.00E+00
259	ALL	265157.51	4050348.04	2.8824E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.169E-04	0.00E+00
260	ALL	265154.34	4050323.02	4.1373E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.316E-03	0.00E+00
261	ALL	265135.66	4050309.98	5.1817E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.648E-03	0.00E+00
262	ALL	265112.40	4050309.98	5.1967E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.653E-03	0.00E+00
263	ALL	265097.25	4050311.04	5.1078E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.625E-03	0.00E+00
264	ALL	265075.40	4050317.03	4.6172E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.469E-03	0.00E+00
265	ALL	265073.28	4050276.15	1.0518E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.346E-03	0.00E+00
266	ALL	265093.02	4050275.09	1.0720E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.410E-03	0.00E+00
267	ALL	265113.81	4050277.91	1.0180E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.238E-03	0.00E+00
268	ALL	265129.32	4050275.09	1.0726E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.412E-03	0.00E+00
269	ALL	265155.04	4050273.33	1.1075E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.523E-03	0.00E+00
270	ALL	264829.20	4050178.82	3.5438E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.127E-03	0.00E+00
271	ALL	264847.25	4050177.85	3.5023E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.114E-03	0.00E+00
272	ALL	264867.73	4050177.85	3.5083E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.116E-03	0.00E+00
273	ALL	264891.64	4050175.41	3.4101E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.085E-03	0.00E+00
274	ALL	264905.29	4050180.29	3.6431E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.159E-03	0.00E+00
275	ALL	264890.66	4050227.12	8.3335E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.651E-03	0.00E+00
276	ALL	264874.56	4050223.70	7.6915E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.447E-03	0.00E+00
277	ALL	264676.03	4050241.75	1.1122E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.538E-03	0.00E+00
278	ALL	264810.66	4050214.92	6.2351E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.983E-03	0.00E+00
279	ALL	264827.73	4050233.95	9.4174E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.996E-03	0.00E+00
280	ALL	264853.59	4050231.99	9.1113E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.898E-03	0.00E+00
281	ALL	264458.11	4050150.79	2.7016E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.594E-04	0.00E+00
282	ALL	264456.39	4050122.10	2.0183E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.420E-04	0.00E+00
283	ALL	264254.94	4050226.55	6.9359E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.206E-03	0.00E+00
284	ALL	264257.81	4050207.61	4.3830E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.394E-03	0.00E+00
285	ALL	264147.62	4050217.94	1.5436E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.910E-04	0.00E+00
286	ALL	263877.88	4050316.53	6.0239E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.916E-04	0.00E+00
287	ALL	264426.28	4051615.26	1.0939E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.480E-05	0.00E+00
288	ALL	264464.84	4051637.66	1.0123E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.220E-05	0.00E+00
289	ALL	264602.52	4051606.56	9.1095E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.898E-05	0.00E+00
290	ALL	264435.81	4051528.18	1.2747E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.055E-05	0.00E+00
291	ALL	264454.48	4051512.83	1.2833E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.082E-05	0.00E+00
292	ALL	264558.56	4051508.69	1.1213E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.567E-05	0.00E+00
293	ALL	264586.35	4051559.69	9.9580E-09	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.168E-05	0.00E+00
294	ALL	263662.67	4051098.35	4.9416E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.572E-04	0.00E+00
295	ALL	263570.95	4051086.16	4.2329E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.347E-04	0.00E+00
296	ALL	263573.88	4051045.66	4.3446E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.382E-04	0.00E+00
297	ALL	263663.65	4051078.35	5.0222E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.598E-04	0.00E+00
298	ALL	263666.58	4051041.76	5.1643E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.643E-04	0.00E+00
299	ALL	264008.03	4050311.14	1.2160E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.868E-04	0.00E+00
300	ALL	264021.02	4050310.63	1.3462E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.282E-04	0.00E+00
301	ALL	264045.21	4050314.20	1.7251E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.488E-04	0.00E+00
302	ALL	264053.37	4050304.01	1.7412E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.539E-04	0.00E+00
303	ALL	264082.15	4050301.97	2.4184E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.693E-04	0.00E+00
304	ALL	264093.86	4050302.99	2.8993E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	9.223E-04	0.00E+00
305	ALL	264120.86	4050360.81	5.6658E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.802E-03	0.00E+00
306	ALL	264128.56	4050391.54	6.1026E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.941E-03	0.00E+00
307	ALL	264029.80	4050507.97	2.0615E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.558E-04	0.00E+00
308	ALL	264060.11	4050558.41	2.5298E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	8.047E-04	0.00E+00
309	ALL	264022.92	4050662.35	1.9123E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	6.083E-04	0.00E+00
310	ALL	264008.91	4050634.58	1.7696E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	5.629E-04	0.00E+00
311	ALL	264050.98	4050597.19	2.3418E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.449E-04	0.00E+00
312	ALL	264835.64	4050834.29	3.5711E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.136E-04	0.00E+00
313	ALL	264860.90	4050818.21	3.5586E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.132E-04	0.00E+00
314	ALL	264861.48	4050792.94	3.8459E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.223E-04	0.00E+00
315	ALL	264883.30	4050777.44	3.8655E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.230E-04	0.00E+00
316	ALL	264905.70	4050735.52	4.2277E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.345E-04	0.00E+00
317	ALL	264928.09	4050751.02	3.8436E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.223E-04	0.00E+00
318	ALL	264937.28	4050730.35	4.0361E-08	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	1.284E-04	0.00E+00
319	ALL	264986.38	4050232.52	9.6252E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.062E-03	0.00E+00
320	ALL	265036.23	4050226.98	9.1853E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.922E-03	0.00E+00
321	ALL	265053.47	4050224.52	8.9851E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	2.858E-03	0.00E+00
322	ALL	265068.24	4050227.60	9.7852E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.113E-03	0.00E+00
323	ALL	265097.17	4050226.37	9.8487E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.133E-03	0.00E+00
324	ALL	265146.41	4050231.29	1.1390E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.623E-03	0.00E+00
325	ALL	265183.12	4050230.02	1.1561E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.678E-03	0.00E+00
326	ALL	265203.36	4050270.50	1.1651E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.706E-03	0.00E+00
327	ALL	265238.70	4050272.43	1.1310E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.598E-03	0.00E+00
328	ALL	265200.14	4050230.02	1.1692E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.719E-03	0.00E+00
329	ALL	265216.85	4050230.98	1.1915E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.790E-03	0.00E+00
330	ALL	265231.31	4050227.13	1.1558E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.677E-03	0.00E+00
331	ALL	265254.76	4050231.30	1.2087E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.845E-03	0.00E+00
332	ALL	265277.90	4050230.02	1.2137E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.861E-03	0.00E+00
333	ALL	265297.50	4050227.13	1.1987E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.813E-03	0.00E+00
334	ALL	265311.31	4050226.48	1.2119E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.855E-03	0.00E+00
335	ALL	265328.66	4050227.13	1.2579E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.001E-03	0.00E+00
336	ALL	265352.44	4050223.91	1.2143E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.863E-03	0.00E+00
337	ALL	265336.69	4050264.72	1.1901E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.786E-03	0.00E+00
338	ALL	265290.11	4050268.90	1.1748E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.737E-03	0.00E+00
339	ALL	265384.24	4050226.48	1.3132E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.177E-03	0.00E+00
340	ALL	265405.45	4050214.60	1.0149E-06	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.228E-03	0.00E+00
341	ALL	265491.55	4050263.43	2.2548E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.173E-04	0.00E+00
342	ALL	265527.54	4050216.52	2.3496E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	7.474E-04	0.00E+00
343	ALL	265536.21	4050261.18	1.1964E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	3.806E-04	0.00E+00
344	ALL	265552.60	4050219.74	1.5483E-07	0.3YrCancerHighEnd_InhSoilDermMMilkCrops	4.925E-04	0.00E+00

HARP2 - HRACalc (dated 22118) 5/29/2024 1:13:28 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 0.3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.3
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False

Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

```
Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE
IMPROVEMENTS\hra\Offsite Con UnmitCancerRisk.csv
Cancer risk total by receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con
UnmitCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE
IMPROVEMENTS\hra\Offsite Con UnmitNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con
UnmitNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE
IMPROVEMENTS\hra\Offsite Con UnmitNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\HRA\0014-023\HARP\03 - OFFSITE IMPROVEMENTS\hra\Offsite Con
UnmitNCAcuteRiskSumByRec.csv
HRA ran successfully
```

Health Risk Assessments

Operational Screening Calculations and Prioritization

Diesel PM Screening — Prioritization Calculator

Applicability	Use to provide a Prioritization score based on the emission potency method. Entries required in yellow areas, output in grey areas.
Author (Prioritization Calculator)	Matthew Cegielski *Last Update* October 13, 2016
Date Updated with Project Emissions	January 14, 2024
Facility:	**Selma Mixed-use Project (Diesel PM Screening Analysis)**
ID#:	—
Project #:	**Truck Run and Idle Emissions**
Unit and Process#	**Mobile Source Diesel (Trucks Visiting the Mixed-Use Project)**

Operating Hours hr/yr 50,844.34 **(operating hours assumed based on idle hours)**

Receptor Proximity and Proximity Factors	Cancer Score	Chronic Score	Acute Score	Max Score
0< R<100 1.000	2.51E+01	6.42E-03	0.00E+00	2.51E+01
100≤R<250 0.250	6.28E+00	1.60E-03	0.00E+00	6.28E+00
250≤R<500 0.040	1.00E+00	2.57E-04	0.00E+00	1.00E+00
500≤R<1000 0.011	2.76E-01	7.06E-05	0.00E+00	2.76E-01
1000≤R<1500 0.003	7.54E-02	1.92E-05	0.00E+00	7.54E-02
1500≤R<2000 0.002	5.02E-02	1.28E-05	0.00E+00	5.02E-02
2000<R 0.001	2.51E-02	6.42E-06	0.00E+00	2.51E-02

Receptor proximity is in meters. Priortization scores are calculated by multiplying the total scores summed below by the proximity factors. Record the Max score for your receptor distance. If the substance list for the unit is longer than the number of rows here or if there are multiple processes use additional worksheets and sum the totals of the Max Scores.

Mobile Source Diesel (Trucks Visiting the Mixed-Use Project)

Enter the unit's CAS# of the substances emitted and their amounts.

Prioritzation score for each substance generated below. Totals on last row.

Substance	CAS#	Annual Emissions (lbs/yr)	Maximum Hourly (lbs/hr)	Average Hourly (lbs/hr)	Cancer	Chronic	Acute
Diesel engine exhaust, particulate matter (Diesel PM)	**9901**	1.09E+01	9.42E-03	2.14E-04	2.51E+01	6.42E-03	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.00E+00	0.00E+00	0.00E+00	0.00E+00
				Totals	**2.51E+01**	**6.42E-03**	**0.00E+00**

Selma Mixed-use Project—Health Risk Screening Analysis for Project Operations

Diesel Truck Trips

	Trucks Onsite Daily	Average Daily Truck Trips
Heavy Truck Trips	**278.60**	**557.20**

Truck Assumptions

Trucks Onsite per Day	278.60
Trucks Onsite per Year	101,688.7
Idling Events per Truck per day	2
Idling Time per Event (minutes)	15
Idling Minutes/Year	3,050,661
Idling Hours/Year	50,844

	Truck Entering	Trucks Exiting	Total
Average Travel Distance Onsite (ft)	660	660	1,320

(0.25 mile on-site and 0.25 mile off-site assumed for this localized assessment - residential project)

	Miles/Trip	Truck Trips/Year	Miles/Year
Offsite Miles Estimate	0.25	203,377.4	50,844.3

	Distance Onsite (ft) in and out	Distance to Receptor Meters	Direction to Receptor	Idling Emissions (lbs/year)	Running Emissions (lbs/yr)	Total Truck Emissions (lbs/year)	Grand Total (lbs/yr)	Average Lbs/Day	Max Lbs/Day*	Max lbs/Hr
Emissions	1,320	<100 M	All	2.22	8.66	**10.8741**	10.87	0.02979	0.08938	0.00745

*Max daily assumed to be 3 times the daily average. Max hr based on 12 hrs/day

Running Emission Calculations	**EMFAC2021 Rates**
Idling Emission Rate for Diesel g/day	2.75743
g/lb conversion factor	0.00220
HDT Onsite Running Emissions 5 mph g/mile	0.09892
HDT Running Emissions Onroad 5-25 mph	0.05551

EMFAC2021 PM10 running emissions Aggregated Fleet Age in 2024

EMFAC2021 Average Running Emissions

	PM10_RUNEX 5-25 MPH	PM10 RUNEX 5 MPH
Weighted Averages (Based on Project Fleet)	**0.05551**	**0.09892**

	Distance (Feet)	Distance (Miles)	Miles/Year/ Truck	Trucks/Day	Emission (g/mi)	Emissions g/year	Emission lbs/year	Emissions lbs/hour
Onsite Running Emissions	1,320.00	0.25	91.3	278.6	0.09892	2514.70	5.54	0.00126574

	Distance (Feet)	Miles/ Round Trip	Miles/Year/ Truck	Trucks/Day	Emissions Rate (g/mi)	Emissions g/year	Emission lbs/year	Emissions lbs/hour
Offsite Running Emissions	1,320.00	0.25	91.25	278.6	0.05551	1411.27	3.11	0.00071035
						Total Running	**8.65526**	**0.00198**

Total Emissions	**Lbs/Year**	**Max Lbs/Hours**
Onsite Running Emissions	5.5439	0.0012657
Offsite Running Emissions	3.1113	0.0007103
Idling Emissions	2.2189	0.0074480
Total	**10.8741286**	**0.0094241**

Health Risk Prioritization Results (Receptor 0-100 M)

	Cancer Score	Chronic Score	Acute Score
Prioritization Score Truck Run and Idle	25.11924	0.00642	0.00000

Operational Fuel Calculation—Project-generated Operational Trips

Daily Truck Trips

Selma Mixed-Use Project - Buildout Year Operations

Operational Mobile Sources

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392.04	392.04	392.04	143094.6	1810.31756	1810.31756	1810.31756	660765.9093
Fast Food Restaurant with Drive Thru	4721.08	6222.20	4772.59	1804152.446	12044.94584	15874.75835	12176.35087	4602954.432
Fast Casual Restaurant	699.41	699.41	699.41	255283.92	5336.116839	5336.116839	5336.116839	1947682.646
Automobile Care Center	895.00	901.00	859.00	325110.7121	3871.779725	6874.158248	6553.720239	1709596.235
Strip Mall and Fast Food Total	**6707.53**	**8214.64**	**6723.03**	**2527641.68**	**23063.16**	**29895.35**	**25876.51**	**8920999.22**

	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	2022.00	1365.00	1158.00	658720.7143	15362.37513	10370.74286	8798.036798	5004705.599
Retirement Community	388.80	328.80	324.00	135404.5714	2953.952251	2498.095422	2461.626876	1028751.643
Affordable	865.80	2160.00	1699.20	426956.1429	6578.014041	16410.84584	12909.86539	3243847.889
Residential Total	**3276.60**	**3853.80**	**3181.20**	**1221081.43**	**24894.34**	**29279.68**	**24169.53**	**9277305.13**

	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Hotel	799.00	807.00	594.00	281362.8571	6095.951654	6156.987465	4531.908989	2146651.282
City Park	2.78	7.00	7.82	1498.5075	21.24504002	53.38497236	59.64953544	11432.82763
Other Asphalt Surfaces	0	0	0	0	0	0	0	0
Parking Lot	0	0	0	0	0	0	0	0
Remaining Project Land Uses	**801.78**	**814.00**	**601.82**	**282861.36**	**6117.20**	**6210.37**	**4591.56**	**2158084.11**

	Weekday	Saturday	Sunday	Total Average Daily Trips
Strip Mall, Fast Food, Restaurant, Automobile Care Trips per Day	6,707.53	8,214.64	6,723.03	**6,925.05**
Residential Trips per Day	3,276.60	3,853.80	3,181.20	**3,345.43**
Remaining Project Land Uses Trips per Day	801.78	814.00	601.82	**774.96**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year by Land Use)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall and Fast Food	0.478027	0.043370	0.208499	0.185184	0.032383	0.008490	0.012177	0.004107	0.000627	0.000347	0.021912	0.001842	0.003036
Residential	0.527700	0.209000	0.167500	0.055600	0.000900	0.000900	0.008000	0.021400	0.000000	0.004300	0.002500	0.000200	0.002000
Remaining Land Uses	0.467283	0.042395	0.203812	0.185184	0.032383	0.008490	0.012177	0.020512	0.000627	0.000347	0.021912	0.001842	0.003036
Daily Trips													
Strip Mall and Fast Food	3,310.3595	300.3359	1,443.8627	1,282.4090	224.2524	58.7925	84.3262	28.4420	4.3391	2.4014	151.7415	12.7558	21.0275
Residential	1,765.3827	699.1946	560.3593	186.0058	3.0109	3.0109	26.7634	71.5922	0.0000	14.3853	8.3636	0.6691	6.6909
Remaining Land Uses	362.1268	32.8543	157.9470	143.5108	25.0955	6.5793	9.4367	15.8964	0.4856	0.2687	16.9810	1.4275	2.3531
Project Total	**5,437.8690**	**1,032.3849**	**2,162.1690**	**1,611.9257**	**252.3587**	**68.3826**	**120.5264**	**115.9306**	**4.8246**	**17.0555**	**177.0861**	**14.8524**	**30.0715**

Heavy Trucks Only		Truck Fleet	
LHD1	252.359	0.452906	45.290649
LHD2	68.383	0.122726	12.272585
MHD	120.526	0.216308	21.630785
HHD	115.931	0.208060	20.805981
Heavy Trucks Total	*557.198*	1.000000	

On-site Truck Running and Idling Emissions for the Health Risk Screening Analysis—Selma Mixed-use Project

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: Fresno
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX
Fresno	2024	HHDT	Aggregate	5	Diesel	857.6377001	18.43067276	0.109234569	0.114173672	3444.177406	0.026135401	0.542631553	0.562688021	0.640577479	1.32784874	0.0326143
Fresno	2024	HHDT	Aggregate	10	Diesel	13804.72972	8.860856617	0.018519159	0.019356513	2983.611313	0.005132034	0.470069177	0.110491284	0.125785916	0.721051203	0.028253015
Fresno	2024	HHDT	Aggregate	15	Diesel	31594.8451	5.559237449	0.009599707	0.010033764	2397.51481	0.001999007	0.377729435	0.043038072	0.048995569	0.390042408	0.022703032
Fresno	2024	HHDT	Aggregate	20	Diesel	56529.76866	3.720822821	0.006338918	0.006625536	2056.020635	0.00107288	0.323926888	0.023098803	0.026296229	0.251493406	0.019469286
Fresno	2024	HHDT	Aggregate	25	Diesel	37757.57659	3.319151302	0.007035557	0.007353673	1875.744823	0.000938538	0.295524361	0.020206466	0.023003523	0.209120641	0.017762182
						Total	39.89074095	0.15072791	0.157543157	12757.06899	0.03527786	2.009881414	0.759522646	0.864658717	2.899556397	0.120801815
Fresno	2024	LHDT1	Aggregate	5	Diesel	6975.202809	2.534449532	0.102180523	0.106800673	1204.244957	0.0214254	0.189729283	0.461276256	0.525132349	1.489204452	0.011410833
Fresno	2024	LHDT1	Aggregate	10	Diesel	23195.72847	2.352792633	0.083192613	0.086954213	1043.166984	0.017477129	0.164351383	0.3762723	0.428360997	1.183078754	0.009884537
Fresno	2024	LHDT1	Aggregate	15	Diesel	50235.30281	2.199662328	0.068262752	0.07134929	874.3688369	0.014447123	0.137757166	0.311038058	0.35409615	0.948094874	0.008285089
Fresno	2024	LHDT1	Aggregate	20	Diesel	55074.11781	2.067942304	0.056226437	0.058768747	756.1547991	0.012035646	0.119132497	0.259120365	0.294991308	0.761971654	0.007164951
Fresno	2024	LHDT1	Aggregate	25	Diesel	58943.9989	1.968130278	0.046427117	0.048526345	657.5020572	0.010073703	0.103589717	0.216880888	0.246904472	0.612314617	0.006230166
						Total	11.12297707	0.356289442	0.37239927	4535.437634	0.075459001	0.714560046	1.624587867	1.849485277	4.99466435	0.042975577
Fresno	2024	LHDT2	Aggregate	5	Diesel	2626.11987	2.327448443	0.091366186	0.09549736	1426.997498	0.019182254	0.224824037	0.412982625	0.470153261	1.321070109	0.013521526
Fresno	2024	LHDT2	Aggregate	10	Diesel	8733.045492	2.122882257	0.075234019	0.078635767	1244.493076	0.015917359	0.196070391	0.342691363	0.390131333	1.061669645	0.011792204
Fresno	2024	LHDT2	Aggregate	15	Diesel	18913.27471	1.947845012	0.062266543	0.06508196	1057.073185	0.013343111	0.166542311	0.287269322	0.327037024	0.856561865	0.010016306
Fresno	2024	LHDT2	Aggregate	20	Diesel	20735.05804	1.795992615	0.051627078	0.053961425	914.789586	0.011244132	0.144125472	0.242079545	0.275591468	0.690050818	0.008668096
Fresno	2024	LHDT2	Aggregate	25	Diesel	22192.04387	1.676460706	0.042843899	0.04478111	795.1390014	0.009498991	0.125274473	0.204507691	0.23281841	0.553405223	0.007534346
						Total	9.870629034	0.323337725	0.337957622	5438.492346	0.069185847	0.856836684	1.489530546	1.695731496	4.48275766	0.051532479
Fresno	2024	MHDT	Aggregate	5	Diesel	918.2929054	9.344169839	0.066663167	0.069677379	2371.788662	0.015270613	0.37367627	0.32877211	0.374282021	0.543208791	0.02245942
Fresno	2024	MHDT	Aggregate	10	Diesel	9549.994675	3.5921804	0.037710362	0.039415458	1994.047833	0.007825636	0.314163048	0.168483789	0.191805968	0.397732154	0.018882441
Fresno	2024	MHDT	Aggregate	15	Diesel	16718.4331	2.165610498	0.02312523	0.024170851	1566.996985	0.003779049	0.246881013	0.081361882	0.092624309	0.251728715	0.014838524
Fresno	2024	MHDT	Aggregate	20	Diesel	22166.55086	1.611328869	0.014471088	0.015125406	1333.628942	0.001814174	0.210113783	0.03905866	0.044465311	0.178769021	0.012628669
Fresno	2024	MHDT	Aggregate	25	Diesel	30129.83798	1.346037614	0.011289895	0.011800374	1202.372791	0.001304096	0.189434323	0.028076819	0.031963321	0.143510571	0.011385751
						Total	18.05932722	0.153259742	0.160189467	8468.835214	0.029993566	1.334268437	0.645753259	0.73514093	1.514949253	0.080194805

Running Emissions 5-25 MPH Averaged

	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX
HHDT	**7.9781**	**0.0301**	**0.0315**	**2551.4138**	**0.0071**	**0.4020**	**0.1519**	**0.1729**	**0.5799**	**0.0242**
LHDT1	**2.2246**	**0.0713**	**0.0745**	**907.0875**	**0.0151**	**0.1429**	**0.3249**	**0.3699**	**0.9989**	**0.0086**
LHDT2	**1.9741**	**0.0647**	**0.0676**	**1087.6985**	**0.0138**	**0.1714**	**0.2979**	**0.3391**	**0.8966**	**0.0103**
MHDT	**3.6119**	**0.0307**	**0.0320**	**1693.7670**	**0.0060**	**0.2669**	**0.1292**	**0.1470**	**0.3030**	**0.0160**

HHDT		**LHDT1**		**LHDT2**		**MHDT**	
Localized Miles per Trip	0.50	Miles per Trip	0.50	Miles per Trip	0.50	Miles per Trip	0.50
Daily Trucks	57.97	Daily Trucks	126.18	Daily Trucks	34.19	Daily Trucks	60.26
Daily Trips	115.93	Daily Trips	252.36	Daily Trips	68.38	Daily Trips	120.53

Onsite Truck Max Daily Emissions	**ROG**	**NO_x**	**CO**	**SO2**	**PM10**	**PM2.5**
HHDT (g/day)	8.8052	462.4557	33.6147	1.4005	1.8264	1.7474
LHDT1 (g/day)	40.9979	280.6980	126.0447	1.0845	9.3978	8.9913
LHDT2 (g/day)	10.1858	67.4980	30.6543	0.3524	2.3110	2.2111
MHDT (g/day)	7.7830	217.6625	18.2591	0.9666	1.9307	1.8472
Total Trucks (g/day)	67.7719	1028.3142	208.5728	3.8039	15.4660	14.7969
Running Emissions lbs/day	0.1494	2.2670	0.4598	0.0084	0.0341	0.0326
Idling Emissions Lbs/Day	0.930	12.704	13.900	0.022	0.018	0.017
Total Emissions/Day	**1.079**	**14.971**	**14.360**	**0.0306**	**0.052**	**0.050**

g/lb conversion factor 0.00220

Idling Minutes/Day Per Truck	15
Max Trucks per Day	278.60
Number Idling Trucks per Day	278.60
Max Trucks per Day—HHDT	57.97
Max Trucks per Day—LHDT1	126.18
Max Trucks per Day—LHDT2	34.19
Max Trucks per Day—MHDT	60.26

Idling Emissions	Calendar Year	Season	Region	Vehicle Category	Fuel	Pollutant	g/vehicle/day	g/day	Max lbs/day
IDLEX	2024	Annual	Fresno	HHDT	Diesel	ROG	6.7233	389.7177	0.859181
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	ROG	0.1098	13.8494	0.030533
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	ROG	0.1098	3.7528	0.008274
IDLEX	2024	Annual	Fresno	MHDT	Diesel	ROG	0.2404	14.4889	0.031943
IDLEX	2024	Annual	Fresno	HHDT	Diesel	NOx	80.1012	4,643.0900	10.236263
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	NOx	2.1796	275.0199	0.606315
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	NOx	2.1368	73.0600	0.161070
IDLEX	2024	Annual	Fresno	MHDT	Diesel	NOx	12.7986	771.2818	1.700386
IDLEX	2024	Annual	Fresno	HHDT	Diesel	CO	98.6083	5,715.8593	12.601315
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	CO	0.9097	114.7911	0.253071
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	CO	0.9097	31.1054	0.068576
IDLEX	2024	Annual	Fresno	MHDT	Diesel	CO	7.3526	443.0925	0.976852
IDLEX	2024	Annual	Fresno	HHDT	Diesel	SO2	0.1482	8.5914	0.018941
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	SO2	0.0013	0.1612	0.000355
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	SO2	0.0020	0.0698	0.000154
IDLEX	2024	Annual	Fresno	MHDT	Diesel	SO2	0.0208	1.2541	0.002765
IDLEX	2024	Annual	Fresno	HHDT	Diesel	PM10	0.0344	1.9942	0.004397
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	PM10	0.0279	3.5177	0.007755
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	PM10	0.0277	0.9480	0.002090
IDLEX	2024	Annual	Fresno	MHDT	Diesel	PM10	0.0288	1.7364	0.003828
IDLEX	2024	Annual	Fresno	HHDT	Diesel	PM2.5	0.0329	1.9080	0.004206
IDLEX	2024	Annual	Fresno	LHDT1	Diesel	PM2.5	0.0267	3.3655	0.007420
IDLEX	2024	Annual	Fresno	LHDT2	Diesel	PM2.5	0.0265	0.9070	0.002000
IDLEX	2024	Annual	Fresno	MHDT	Diesel	PM2.5	0.0276	1.6612	0.003662

For Weighted Average for Project (5-25 MPH)

	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX
Weighted Average Using Project Truck Fleet Percentages										
HHDT	7.97814819	0.030145582	0.031508631	2551.413797	0.007055572	0.401976283	0.151904529	0.172931743	0.579911279	0.024160363
LHDT1	2.224595415	0.071257888	0.074479854	907.0875269	0.0150918	0.142912009	0.324917573	0.369897055	0.99893287	0.008595115
LHDT2	1.974125807	0.064667545	0.067591524	1087.698469	0.013837169	0.171367337	0.297906109	0.339146299	0.896551532	0.010306496
MHDT	3.611865444	0.030651948	0.032037893	1693.767043	0.005998713	0.266853687	0.129150652	0.147028186	0.302989851	0.016038961
HHDT	462.4556514	1.747397321	1.826406874	147893.4336	0.408978254	23.30067069	8.805189668	10.02403817	33.61472388	1.400462377
LHDT1	280.698031	8.991274924	9.397820478	114455.7258	1.90427373	18.03254621	40.99789224	46.67337459	126.0447126	1.084526168
LHDT2	67.49796363	2.21106861	2.311043321	37189.84446	0.47311106	5.859275141	10.18580257	11.59585903	30.65427872	0.352392676
MHDT	217.6625049	1.847183946	1.930705407	102071.7917	0.36150155	16.08145235	7.783029247	8.860386343	18.25913253	0.96655883
Total	1028.314151	14.7969248	15.46597608	401610.7955	3.147864595	63.27394439	67.77191373	77.15365814	208.5728477	3.803940052
Weighted Average	3.691016829	0.053111881	0.055513364	1441.536328	0.011298902	0.227114636	0.243259586	0.276934291	0.748648543	0.013653811

Max Trucks per Day—HHDT	57.97
Max Trucks per Day—LHDT1	126.18
Max Trucks per Day—LHDT2	34.19
Max Trucks per Day—MHDT	60.26
Total	278.60

For Weighted Average for Project (5 MPH)

	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX
Weighted Average Using Project Truck Fleet Percentages										
HHDT	18.43067276	0.109234569	0.114173672	3444.177406	0.026135401	0.542631553	0.562688021	0.640577479	1.32784874	0.0326143
LHDT1	2.534449532	0.102180523	0.106800673	1204.244957	0.0214254	0.189729283	0.461276256	0.525132349	1.489204452	0.011410833
LHDT2	2.327448443	0.091366186	0.09549736	1426.997498	0.019182254	0.224824037	0.412982625	0.470153261	1.321070109	0.013521526
MHDT	9.344169839	0.066663167	0.069677379	2371.788662	0.015270613	0.37367627	0.32877211	0.374282021	0.543208791	0.02245942
HHDT	1068.33924	6.331813184	6.618109679	199642.7326	1.514946037	31.45379382	32.61637275	37.13125757	76.96913363	1.890497293
LHDT1	319.7952259	12.8930733	13.47604087	151950.8608	2.703443359	23.93992001	58.20354383	66.26086502	187.9068682	1.439811628
LHDT2	79.57853031	3.123930355	3.265180623	48790.92552	0.655866534	7.687030185	14.12042033	16.07515975	45.16912846	0.462318815
MHDT	563.1094085	4.017334559	4.198980601	142931.532	0.92025573	22.51892108	19.81285352	22.55542556	32.73549031	1.353476137
Total	2030.822405	26.3661514	27.55831177	543316.051	5.794511661	85.59966509	124.7531904	142.0227079	342.7806206	5.146103874
Weighted Average	7.289406324	0.094638305	0.098917429	1950.171245	0.020798741	0.307250274	0.447787405	0.509774376	1.230372098	0.018471355

Max Trucks per Day—HHDT	57.97
Max Trucks per Day—LHDT1	126.18
Max Trucks per Day—LHDT2	34.19
Max Trucks per Day—MHDT	60.26
Total	278.60

For Weighted Average for Project (Idle)

	PM10_IDLEX (g/d)	
Weighted Average Using Project Truck Fleet Percentages		
HHDT	2.026399744	2.026399744
LHDT1	3.962789939	3.962789939
LHDT2	1.063132887	1.063132887
MHDT	1.89807689	1.89807689
HHDT	117.4608432	
LHDT1	500.0223078	
LHDT2	36.34991483	
MHDT	114.3841532	
Total	768.2172191	
Weighted Average	2.757428439	

Health Risk Assessments

Operational DPM Health Risk Assessment

Selma Mixed-use Project **DPM - Project Operations**

Emission Assumptions

Emission Factors

1) Truck Emissions

(1) EMFAC2021 for emission rates

(a) Calculations for	Fresno County - 2024 Operational Year
(b) Truck Mix	Consistent with CalEEMod runs used in Air Quality Analysis
(c) Truck Idle	One instance per trip over on-site truck travel routes
(d) Onsite Vehicle Travel Speed	5 mph for trucks
(e) Offsite Vehicle Travel Speed	5-25 mph aggregated for trucks (per SJVAPCD staff comment on modeling assumptions for a previous project)

Traffic Allocation

1) Traffic distribution based on site layout identified in the site plan
2) Project-specific trip generation
3) Onsite travel emissions generated from diesel vehicles
4) Onsite idling emissions generated only by trucks

Emission Source Configuration

1) Project onsite truck traffic represented by a line source
2) Project onsite truck idling represented as line sources (series of point sources)
3) Offsite vehicles represented by a line source

Onsite Vehicle Travel Segments

Segment	**Source ID**	**Segment Travel Distance (m)**	
On-site Travel 1	SLINE6	738.2	On1
On-site Travel 2	SLINE7	780.3	On2
On-site Travel 3	SLINE8	474.6	On3
On-site Travel 4	SLINE9	981.3	On4

Onsite Truck Idling

On-site Travel 1	SLINE6	738.2	On1
On-site Travel 2	SLINE7	780.3	On2
On-site Travel 3	SLINE8	474.6	On3
On-site Travel 4	SLINE9	981.3	On4

Offsite Vehicle Travel Segments

Segment		**Segment Travel Distance (m)**	
Off-site Truck Route 1	SLINE1	719.7	Offsite Travel 1 – From North
Off-site Truck Route 2	SLINE2	920.8	Offsite Travel 2 – To North
Off-site Truck Route 3	SLINE3	525.6	Offsite Travel 3 – From South or East
Off-site Truck Route 4	SLINE4	495.2	Offsite Travel 4 – To South or East
Off-site Truck Route 5	SLINE5	366.9	Offsite Travel 5 – Stillman St

Other Input Parameters

Truck Operations (hr/day): 24

Operational Fuel Calculation—Project-generated Operational Trips

Daily Truck Trips

Selma Mixed-Use Project - Buildout Year Operations

	Weekday	Saturday	Sunday	Total Average Daily Trips
Strip Mall, Fast Food, Restaurant, Automobile Care Trips per Day	6,707.53	8,214.64	6,723.03	**6,925.05**
Residential Trips per Day	3,276.60	3,853.80	3,181.20	**3,345.43**
Remaining Project Land Uses Trips per Day	801.78	814.00	601.82	**774.96**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year by Land Use)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall and Fast Food	0.478027	0.043370	0.208499	0.185184	0.032383	0.008490	0.012177	0.004107	0.000627	0.000347	0.021912	0.001842	0.003036
Residential	0.527700	0.209000	0.167500	0.055600	0.000900	0.000900	0.008000	0.021400	0.000000	0.004300	0.002500	0.000200	0.002000
Remaining Land Uses	0.467283	0.042395	0.203812	0.185184	0.032383	0.008490	0.012177	0.020512	0.000627	0.000347	0.021912	0.001842	0.003036
Daily Trips													
Strip Mall and Fast Food	3,310.3595	300.3359	1,443.8627	1,282.4090	224.2524	58.7925	84.3262	28.4420	4.3391	2.4014	151.7415	12.7558	21.0275
Residential	1,765.3827	699.1946	560.3593	186.0058	3.0109	3.0109	26.7634	71.5922	0.0000	14.3853	8.3636	0.6691	6.6909
Remaining Land Uses	362.1268	32.8543	157.9470	143.5108	25.0955	6.5793	9.4367	15.8964	0.4856	0.2687	16.9810	1.4275	2.3531
Project Total	**5,437.8690**	**1,032.3849**	**2,162.1690**	**1,611.9257**	**252.3587**	**68.3826**	**120.5264**	**115.9306**	**4.8246**	**17.0555**	**177.0861**	**14.8524**	**30.0715**

Heavy Trucks Only	Trips per Day	Truck Fleet
LHD1	252.359	0.452906
LHD2	68.383	0.122726
MHD	120.526	0.216308
HHD	115.931	0.208060
Heavy Trucks Total	*557.198*	1.000000

Selma Mixed-use Project

Vehicle Fleet Mix

Total Daily Truck Trips		Trucks	Total Daily Truck Trips
(Trips/day)	Daily Trips	557.198	557.20
557	Fleet Mix	100.0%	100.0%

—

Vehicle Fleet

	Trucks Project Vehicle Mix	**% Diesel**	**Total Number of Daily Trips**	**Number of Daily Diesel Trips**	**Number of Daily Non-Trips**	**Total Number of Daily Trips**	**% Diesel Trips**	**% Non-Diesel Trips**	**Total Trips**
LHDT1 (2-axle truck)	45.3%	47.1%	252	118.9	133	252	21.35%	23.94%	
LHDT2 (2-axle truck)	12.3%	67.9%	68	46.4	22	68	8.33%	3.95%	
MHDT (3 axle truck)	21.6%	86.5%	121	104.3	16	121	18.72%	2.91%	
HHDT (4+ axle truck)	20.8%	98.6%	116	114.3	2	116	20.51%	0.29%	
Truck Subtotal	100.0%		557	383.9	173	557	68.91%	31.09%	100.00%

Truck fleet mix consistent with the project CalEEMod runs used in the Air Quality Analysis.
Percent diesel from EMFAC2021 database for Fresno County.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Fresno
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Trips
Fresno	2024	HHDT	Aggregate	Aggregate	Gasoline	0.917790183	69.44543013	18.36314598
Fresno	2024	HHDT	Aggregate	Aggregate	Diesel	14420.40105	2065363.161	245919.0041
Fresno	2024	HHDT	Aggregate	Aggregate	Electricity	44.15057259	5022.34888	702.0663353
Fresno	2024	HHDT	Aggregate	Aggregate	Natural Gas	380.1948937	24410.04246	2939.061492
					Total	**14845.66431**	**2094864.997**	**249578.4951**
					% Diesel	**0.97135438**	**0.98591707**	**0.985337315**
Fresno	2024	LHDT1	Aggregate	Aggregate	Gasoline	12363.75636	442604.9108	184201.5477
Fresno	2024	LHDT1	Aggregate	Aggregate	Diesel	11041.74007	396666.7609	138891.1996
Fresno	2024	LHDT1	Aggregate	Aggregate	Electricity	31.24329682	2306.9915	436.4490708
					Total	**23436.73973**	**841578.6632**	**323529.1964**
					% Diesel	**0.471129526**	**0.471336523**	**0.429300357**
Fresno	2024	LHDT2	Aggregate	Aggregate	Gasoline	2053.928866	70185.22247	30600.47975
Fresno	2024	LHDT2	Aggregate	Aggregate	Diesel	4082.416061	149342.534	51351.65837
Fresno	2024	LHDT2	Aggregate	Aggregate	Electricity	8.086742224	565.755939	107.0439719
					Total	**6144.43167**	**220093.5124**	**82059.18209**
					% Diesel	**0.664409059**	**0.678541282**	**0.625788084**
Fresno	2024	MHDT	Aggregate	Aggregate	Gasoline	939.8774941	52454.03356	18805.0689
Fresno	2024	MHDT	Aggregate	Aggregate	Diesel	7764.571273	374754.4819	94639.78564
Fresno	2024	MHDT	Aggregate	Aggregate	Electricity	23.99374628	1353.235265	307.6661248
Fresno	2024	MHDT	Aggregate	Aggregate	Natural Gas	84.5377372	4507.529308	643.7792329
					Total	**8812.980251**	**433069.2801**	**114396.2999**
					% Diesel	**0.881038088**	**0.865345337**	**0.827297611**

Selma Mixed-use Project

Trip Distribution

Vehicle Allocation - Number of Daily Diesel Trips

Allocation of Truck Trips

Percent Allocation - On-site Travel

25% On-site Travel – Route 1 (DSL trucks)
25% On-site Travel – Route 2 (DSL trucks)
25% On-site Travel – Route 3 (DSL trucks)
25% On-site Travel – Route 4 (DSL trucks)

100% Total Diesel Truck Trips

Segment - On-site Travel	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	SBUS	MH	Total
On-site Travel 1	SLINE6	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 2	SLINE7	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 3	SLINE8	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 4	SLINE9	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
Total Diesel Trucks	—	0	0	0	0	119	46	104	114	0	0	0	0	384

Percent Allocation of Trips - On-site Diesel Truck Idling

25.0% On-site Travel 1
25.0% On-site Travel 2
25.0% On-site Travel 3
25.0% On-site Travel 4
100% Total Diesel Truck Trips (one occurrence per trip - disbursed over on-site travel routs as no idling spots are planned)

Segment - On-site Truck Idle	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	SBUS	MH	Total
On-site Travel 1	SLINE6	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 2	SLINE7	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 3	SLINE8	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
On-site Travel 4	SLINE9	0.0	0.0	0.0	0.0	29.7	11.6	26.1	28.6	0.0	0.0	0.0	0.0	96.0
Total Idling (Diesel Trucks Idling)	—	0	0	0	0	119	46	104	114	0	0	0	0	384

Selma Mixed-use Project

Diesel Vehicle Emissions

Processes Modeled

Diesel vehicle exhaust

Facility Operations

24 hrs/day, 52 weeks/year

On-site Travel Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/day)	Total Emissions for all Vehicles (g/sec)
SLINE6	**LHDT1**	5	0.107	29.7	738.2	0.46	1.456E+00	3.21E-03	1.686E-05		
	LHDT2	5	0.095	11.6	738.2	0.46	5.080E-01	1.12E-03	5.880E-06		
	MHDT	5	0.070	26.1	738.2	0.46	8.331E-01	1.84E-03	9.643E-06		
	HHDT	5	0.114	28.6	738.2	0.46	1.496E+00	3.30E-03	1.732E-05	**4.2936E+00**	**4.9695E-05**
SLINE7	**LHDT1**	5	0.107	29.7	780.3	0.48	1.54E+00	3.39E-03	1.78E-05		
	LHDT2	5	0.095	11.6	780.3	0.48	5.37E-01	1.18E-03	6.22E-06		
	MHDT	5	0.070	26.1	780.3	0.48	8.81E-01	1.94E-03	1.02E-05		
	HHDT	5	0.114	28.6	780.3	0.48	1.58E+00	3.48E-03	1.83E-05	**4.5385E+00**	**5.2529E-05**
SLINE8	**LHDT1**	5	0.107	29.7	474.6	0.29	9.36E-01	2.06E-03	1.08E-05		
	LHDT2	5	0.095	11.6	474.6	0.29	3.27E-01	7.19E-04	3.78E-06		
	MHDT	5	0.070	26.1	474.6	0.29	5.36E-01	1.18E-03	6.20E-06		
	HHDT	5	0.114	28.6	474.6	0.29	9.62E-01	2.12E-03	1.11E-05	**2.7604E+00**	**3.19E-05**
SLINE9	**LHDT1**	5	0.107	29.7	981.3	0.61	1.94E+00	4.26E-03	2.24E-05		
	LHDT2	5	0.095	11.6	981.3	0.61	6.75E-01	1.49E-03	7.82E-06		
	MHDT	5	0.070	26.1	981.3	0.61	1.11E+00	2.44E-03	1.28E-05		
	HHDT	5	0.114	28.6	981.3	0.61	1.99E+00	4.38E-03	2.30E-05	**5.7076E+00**	**6.6060E-05**

Selma Mixed-use Project

Diesel Truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/day)	Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/day)	Total Emissions for all Vehicles (g/sec)
SLINE6	**LHDT1**	3.963	15	29.7	2.95E+00	6.49E-03	3.41E-05		
	LHDT2	1.063	15	11.6	3.08E-01	6.79E-04	3.57E-06		
	MHDT	1.898	15	26.1	1.24E+00	2.73E-03	1.43E-05		
	HHDT	2.026	15	28.6	1.45E+00	3.19E-03	1.68E-05	**5.9392E+00**	**6.8740E-05**
SLINE7	**LHDT1**	3.963	15	29.7	2.95E+00	6.49E-03	3.41E-05		
	LHDT2	1.063	15	11.6	3.08E-01	6.79E-04	3.57E-06		
	MHDT	1.898	15	26.1	1.24E+00	2.73E-03	1.43E-05		
	HHDT	2.026	15	28.6	1.45E+00	3.19E-03	1.68E-05	**5.9392E+00**	**6.8740E-05**
SLINE8	**LHDT1**	3.963	15	29.7	2.95E+00	6.49E-03	3.41E-05		
	LHDT2	1.063	15	11.6	3.08E-01	6.79E-04	3.57E-06		
	MHDT	1.898	15	26.1	1.24E+00	2.73E-03	1.43E-05		
	HHDT	2.026	15	28.6	1.45E+00	3.19E-03	1.68E-05	**5.9392E+00**	**6.8740E-05**
SLINE9	**LHDT1**	3.963	15	29.7	2.95E+00	6.49E-03	3.41E-05		
	LHDT2	1.063	15	11.6	3.08E-01	6.79E-04	3.57E-06		
	MHDT	1.898	15	26.1	1.24E+00	2.73E-03	1.43E-05		
	HHDT	2.026	15	28.6	1.45E+00	3.19E-03	1.68E-05	**5.9392E+00**	**6.8740E-05**

Selma Mixed-use Project

Project Operations **24 hours/day**
Emission Rates

Running Emissions 5-25 mph Averaged (EMFAC2021 for Fresno County by vehicle type and speed)

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	Off-site Truck Route 1	20.0%
SLINE2	Off-site Truck Route 2	20.0%
SLINE3	Off-site Truck Route 3	20.0%
SLINE4	Off-site Truck Route 4	20.0%
SLINE5	Off-site Truck Route 5	20.0%
	Total	100.0%

Segment ID: SLINE1
Travel Distance: 719.7 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	23.8	0.0744799	0.45	0.792	9.17E-06
LHDT2-DSL	9.3	0.0675915	0.45	0.280	3.25E-06
MHDT-DSL	20.9	0.0320379	0.45	0.299	3.46E-06
HHDT-DSL	22.9	0.0315086	0.45	0.322	3.73E-06
Total	76.8			**1.69E+00**	**1.96E-05**

Segment ID: SLINE2
Travel Distance: 920.8 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	23.8	0.0744799	0.57	1.013	1.17E-05
LHDT2-DSL	9.3	0.0675915	0.57	0.359	4.15E-06
MHDT-DSL	20.9	0.0320379	0.57	0.382	4.42E-06
HHDT-DSL	22.9	0.0315086	0.57	0.412	4.77E-06
Total	76.8			**2.17E+00**	**2.51E-05**

Segment ID: SLINE3
Travel Distance: 525.6 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	23.8	0.0744799	0.33	0.579	6.70E-06
LHDT2-DSL	9.3	0.0675915	0.33	0.205	2.37E-06
MHDT-DSL	20.9	0.0320379	0.33	0.218	2.53E-06
HHDT-DSL	22.9	0.0315086	0.33	0.235	2.72E-06
Total	76.8			**1.24E+00**	**1.43E-05**

Segment ID: SLINE4
Travel Distance: 495.2 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	23.8	0.0744799	0.31	0.545	6.31E-06
LHDT2-DSL	9.3	0.0675915	0.31	0.193	2.23E-06
MHDT-DSL	20.9	0.0320379	0.31	0.206	2.38E-06
HHDT-DSL	22.9	0.0315086	0.31	0.222	2.56E-06
Total	76.8			**1.17E+00**	**1.35E-05**

Segment ID: SLINE5
Travel Distance: 366.9 meters
Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	23.8	0.0744799	0.23	0.404	4.67E-06
LHDT2-DSL	9.3	0.0675915	0.23	0.143	1.65E-06
MHDT-DSL	20.9	0.0320379	0.23	0.152	1.76E-06
HHDT-DSL	22.9	0.0315086	0.23	0.164	1.90E-06
Total	76.8			**8.63E-01**	**9.99E-06**

Selma Mixed-use Project

Summary of Emissions in Pounds

Diesel Truck Idling Emissions

Segment - On-site Truck Idle		Emissions (g/day)	Emissions (lb/day)	Emissions (lb/year)	Max Emissions in an Hour (lbs/hr)	Source Group
On-site Travel 1	SLINE6	5.939151722	0.013081832	4.774868675	0.001308183	IDLE1
On-site Travel 2	SLINE7	5.939151722	0.013081832	4.774868675	0.001308183	IDLE2
On-site Travel 3	SLINE8	5.939151722	0.013081832	4.774868675	0.001308183	IDLE3
On-site Travel 4	SLINE9	5.939151722	0.013081832	4.774868675	0.001308183	IDLE4
	Subtotal Idle	**23.75660689**	**0.052327328**	**19.0994747**		

Diesel Truck On-site Travel Emissions (5 mph)

Segment	Source ID	Source #	Source Group	Emissions (g/day)	Emissions (lb/day)	Emissions (lb/year)	Max Emissions in an Hour (lbs/hr)
On-site Travel 1	SLINE6	On1	On1	4.293624049	0.009457322	3.451922418	0.000945732
On-site Travel 2	SLINE7	On2	On2	4.538492069	0.009996679	3.648787676	0.000999668
On-site Travel 3	SLINE8	On3	On3	2.76043616	0.006080256	2.219293389	0.000608026
On-site Travel 4	SLINE9	On4	On4	5.707576915	0.012571755	4.588690692	0.001257176
		Subtotal On-site Travel		**17.30012919**	**0.038106011**	**13.90869418**	

Diesel Truck Localized Off-site Travel Emissions (5-25 mph aggregated)

Segment	Source ID	Source #	Source Group	Emissions (g/day)	Emissions (lb/day)	Emissions (lb/year)	Max Emissions in an Hour (lbs/hr)
Offsite Travel 1 – From North	SLINE1	Off1	Off1	1.693399862	0.003729956	1.36143381	0.000621659
Offsite Travel 2 – To North	SLINE2	Off2	Off2	2.166573007	0.004772187	1.741848343	0.000795365
Offsite Travel 3 – From South or East	SLINE3	Off3	Off3	1.23669719	0.002724003	0.994260957	0.000454
Offsite Travel 4 – To South or East	SLINE4	Off4	Off4	1.165168281	0.00256645	0.936754235	0.000427742
Offsite Travel 5 – Stillman St	SLINE5	Off5	Off5	0.86328805	0.001901516	0.694053168	0.000316919
		Subtotal Off-site Travel		**7.12512639**	**0.015694111**	**5.728350512**	

Notes: Divided pounds per day by 10 hours to estimate maximum pounds in an hour.

Health Risk Summary (Summary of HARP2 Results - Operational DPM Starting in the Third Trimester)

Selma Mixed-use Project - Operations

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
Maximum Risk	5.086E-06	5.09	9.691E-04	0.00E+00

	X	Y
MEI UTM	264801.39	4050588.60
Receptor # 186		

*HARP - HRACalc v22118 1/15/2024 7:32:44 AM - Cancer Risk - Input File: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops - Starting 3rd TrimesterHRAInput.hra
*HARP - HRACalc v22118 1/15/2024 7:32:44 AM - Chronic Risk - Input File: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops - Starting 3rd TrimesterHRAInput.hra
*HARP - HRACalc v22118 1/15/2024 7:32:44 AM - Acute Risk - Input File: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops - Starting 3rd TrimesterHRAInput.hra

REC	GRP	X	Y	RISK_SUM	SCENARIO	MAXHI NonCancerChronic	MAXHI Acute
1	ALL	264814.83	4050642.58	4.7206E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9955E-04	0.00E+00
2	ALL	264806.10	4050501.48	4.4115E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.4064E-04	0.00E+00
3	ALL	264802.66	4050552.80	4.8688E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2778E-04	0.00E+00
4	ALL	264856.30	4050593.92	3.9987E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.6198E-04	0.00E+00
5	ALL	264854.46	4050637.24	3.9048E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.4408E-04	0.00E+00
6	ALL	264803.61	4050383.01	3.2484E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1901E-04	0.00E+00
7	ALL	264852.72	4050443.86	3.5213E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.7101E-04	0.00E+00
8	ALL	264897.66	4050487.38	3.3395E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3637E-04	0.00E+00
9	ALL	264903.98	4050532.24	3.3482E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3802E-04	0.00E+00
10	ALL	264956.02	4050583.56	2.7354E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2125E-04	0.00E+00
11	ALL	264957.85	4050630.40	2.5910E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9374E-04	0.00E+00
12	ALL	264611.68	4050195.99	1.4418E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7474E-04	0.00E+00
13	ALL	264656.79	4050213.78	1.6407E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1264E-04	0.00E+00
14	ALL	264701.90	4050231.57	1.8532E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5313E-04	0.00E+00
15	ALL	264799.58	4050276.69	2.3220E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4248E-04	0.00E+00
16	ALL	264844.27	4050277.07	2.3255E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4314E-04	0.00E+00
17	ALL	264894.76	4050302.33	2.4262E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6232E-04	0.00E+00
18	ALL	264946.24	4050365.22	2.5748E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9065E-04	0.00E+00
19	ALL	264956.76	4050418.62	2.6949E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1354E-04	0.00E+00
20	ALL	265000.03	4050427.25	2.4453E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6597E-04	0.00E+00
21	ALL	265002.67	4050499.30	2.4521E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6727E-04	0.00E+00
22	ALL	265021.48	4050543.99	2.2676E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3210E-04	0.00E+00
23	ALL	265040.29	4050588.69	2.0540E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9140E-04	0.00E+00
24	ALL	265059.10	4050633.38	1.8397E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5056E-04	0.00E+00
25	ALL	264566.58	4050178.20	1.2664E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4132E-04	0.00E+00
26	ALL	264512.51	4050179.42	1.1716E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2325E-04	0.00E+00
27	ALL	264458.45	4050180.65	1.0900E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0770E-04	0.00E+00
28	ALL	264404.38	4050181.88	1.0234E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9502E-04	0.00E+00
29	ALL	264350.31	4050183.10	9.7090E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8501E-04	0.00E+00
30	ALL	264296.25	4050184.33	9.2920E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7706E-04	0.00E+00
31	ALL	264242.18	4050185.55	8.9492E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7053E-04	0.00E+00
32	ALL	264188.12	4050186.78	8.6516E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6486E-04	0.00E+00
33	ALL	264612.43	4050097.20	1.0541E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0087E-04	0.00E+00
34	ALL	264660.54	4050116.18	1.1943E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2758E-04	0.00E+00
35	ALL	264708.65	4050135.16	1.3512E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5748E-04	0.00E+00
36	ALL	264811.22	4050192.14	1.7866E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4045E-04	0.00E+00
37	ALL	264853.00	4050192.09	1.8198E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4678E-04	0.00E+00
38	ALL	264911.84	4050226.19	1.9948E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8012E-04	0.00E+00
39	ALL	264949.22	4050230.05	1.9795E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7721E-04	0.00E+00
40	ALL	265013.17	4050278.72	2.0410E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8892E-04	0.00E+00
41	ALL	265037.47	4050344.37	2.1261E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0514E-04	0.00E+00
42	ALL	265000.79	4050380.76	2.3629E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5026E-04	0.00E+00
43	ALL	265137.78	4050582.73	1.5497E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9531E-04	0.00E+00
44	ALL	265157.85	4050630.40	1.3865E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6420E-04	0.00E+00
45	ALL	264564.31	4050078.22	9.3425E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7803E-04	0.00E+00
46	ALL	264510.25	4050079.45	8.7364E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6648E-04	0.00E+00
47	ALL	264456.18	4050080.68	8.2270E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5677E-04	0.00E+00
48	ALL	264402.11	4050081.90	7.8163E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4894E-04	0.00E+00
49	ALL	264348.05	4050083.13	7.4935E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4279E-04	0.00E+00
50	ALL	264293.98	4050084.35	7.2344E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3786E-04	0.00E+00
51	ALL	264239.92	4050085.58	7.0191E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3375E-04	0.00E+00
52	ALL	264185.85	4050086.80	6.8285E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3012E-04	0.00E+00
53	ALL	264051.98	4050628.06	3.4408E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5567E-04	0.00E+00
54	ALL	264064.03	4050609.99	3.3445E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3732E-04	0.00E+00
55	ALL	263998.93	4050606.77	2.7153E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1742E-04	0.00E+00
56	ALL	264015.34	4050565.60	2.4683E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.7036E-04	0.00E+00
57	ALL	264072.34	4050506.66	2.2028E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1976E-04	0.00E+00
58	ALL	264036.03	4050455.24	1.7049E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2488E-04	0.00E+00
59	ALL	264117.44	4050346.96	1.2924E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4627E-04	0.00E+00
60	ALL	264162.34	4050317.96	1.2287E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3414E-04	0.00E+00
61	ALL	263719.56	4050641.53	1.5032E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8644E-04	0.00E+00
62	ALL	263739.65	4050591.11	1.4599E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7819E-04	0.00E+00
63	ALL	263759.73	4050540.69	1.3884E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6457E-04	0.00E+00
64	ALL	263779.81	4050490.27	1.2936E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4651E-04	0.00E+00
65	ALL	263799.90	4050439.86	1.1846E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2573E-04	0.00E+00
66	ALL	263819.98	4050389.44	1.0723E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0433E-04	0.00E+00
67	ALL	263875.69	4050330.54	9.7804E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8637E-04	0.00E+00
68	ALL	264138.40	4050208.53	8.8429E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6851E-04	0.00E+00
69	ALL	263699.48	4050691.94	1.5178E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8923E-04	0.00E+00
70	ALL	263700.09	4050749.84	1.5811E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0129E-04	0.00E+00
71	ALL	263700.70	4050807.73	1.6183E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0837E-04	0.00E+00
72	ALL	263701.32	4050865.63	1.6275E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1014E-04	0.00E+00
73	ALL	263701.93	4050923.52	1.6102E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0683E-04	0.00E+00
74	ALL	263702.54	4050981.41	1.5693E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9904E-04	0.00E+00
75	ALL	263703.16	4051039.31	1.5094E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8762E-04	0.00E+00
76	ALL	263703.77	4051097.20	1.4351E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7346E-04	0.00E+00
77	ALL	263620.57	4050640.06	1.2462E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3748E-04	0.00E+00
78	ALL	263641.66	4050587.13	1.2212E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3270E-04	0.00E+00
79	ALL	263662.75	4050534.19	1.1732E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2357E-04	0.00E+00
80	ALL	263683.84	4050481.25	1.1057E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1070E-04	0.00E+00
81	ALL	263704.93	4050428.31	1.0247E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9526E-04	0.00E+00
82	ALL	263726.01	4050375.37	9.3767E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7868E-04	0.00E+00
83	ALL	263747.10	4050322.44	8.5209E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6237E-04	0.00E+00
84	ALL	263820.40	4050246.66	7.6618E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4600E-04	0.00E+00
85	ALL	263872.61	4050223.82	7.5810E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4446E-04	0.00E+00
86	ALL	263924.81	4050200.99	7.4867E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4266E-04	0.00E+00
87	ALL	263977.02	4050178.15	7.3793E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4062E-04	0.00E+00
88	ALL	264029.23	4050155.31	7.2568E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3828E-04	0.00E+00
89	ALL	264081.44	4050132.48	7.1207E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3569E-04	0.00E+00
90	ALL	264133.64	4050109.64	6.9759E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3293E-04	0.00E+00
91	ALL	263599.48	4050693.00	1.2482E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3786E-04	0.00E+00
92	ALL	263600.10	4050750.90	1.2841E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4470E-04	0.00E+00
93	ALL	263600.71	4050808.79	1.3019E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4808E-04	0.00E+00
94	ALL	263601.32	4050866.68	1.3022E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4814E-04	0.00E+00
95	ALL	263601.94	4050924.58	1.2876E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4536E-04	0.00E+00
96	ALL	263602.55	4050982.47	1.2603E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4016E-04	0.00E+00
97	ALL	263603.16	4051040.37	1.2232E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3309E-04	0.00E+00

98	ALL	263603.77	4051098.26	1.1773E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2435E-04	0.00E+00
99	ALL	264166.37	4051574.11	7.9378E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5126E-04	0.00E+00
100	ALL	264121.83	4051556.35	8.1948E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5616E-04	0.00E+00
101	ALL	264077.30	4051538.60	8.4430E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6089E-04	0.00E+00
102	ALL	264032.76	4051520.85	8.6727E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6526E-04	0.00E+00
103	ALL	263988.22	4051503.10	8.9141E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6986E-04	0.00E+00
104	ALL	263943.69	4051485.34	9.1329E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7403E-04	0.00E+00
105	ALL	263899.15	4051467.59	9.3192E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7758E-04	0.00E+00
106	ALL	263835.76	4051405.76	1.0354E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9731E-04	0.00E+00
107	ALL	263816.90	4051361.68	1.1247E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1432E-04	0.00E+00
108	ALL	263798.05	4051317.60	1.2091E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3041E-04	0.00E+00
109	ALL	263779.19	4051273.52	1.2835E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4458E-04	0.00E+00
110	ALL	263760.34	4051229.44	1.3449E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5627E-04	0.00E+00
111	ALL	263741.48	4051185.36	1.3910E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6507E-04	0.00E+00
112	ALL	263722.62	4051141.28	1.4208E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7075E-04	0.00E+00
113	ALL	264210.90	4051591.86	7.6126E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4506E-04	0.00E+00
114	ALL	264371.26	4051589.56	7.5165E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4323E-04	0.00E+00
115	ALL	264424.71	4051588.80	7.2827E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3878E-04	0.00E+00
116	ALL	264478.17	4051588.03	7.0005E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3340E-04	0.00E+00
117	ALL	264531.62	4051587.26	6.6743E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2718E-04	0.00E+00
118	ALL	264585.07	4051586.50	6.3170E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2037E-04	0.00E+00
119	ALL	264164.83	4051672.91	6.0345E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1499E-04	0.00E+00
120	ALL	264117.32	4051653.98	6.2980E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2001E-04	0.00E+00
121	ALL	264069.82	4051635.04	6.5374E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2457E-04	0.00E+00
122	ALL	264022.32	4051616.10	6.7638E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2889E-04	0.00E+00
123	ALL	263974.81	4051597.17	6.9831E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3307E-04	0.00E+00
124	ALL	263927.31	4051578.23	7.1761E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3674E-04	0.00E+00
125	ALL	263879.80	4051559.30	7.3585E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4022E-04	0.00E+00
126	ALL	263832.30	4051540.36	7.5181E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4326E-04	0.00E+00
127	ALL	263764.68	4051474.41	8.3247E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5863E-04	0.00E+00
128	ALL	263744.57	4051427.39	9.1029E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7346E-04	0.00E+00
129	ALL	263724.45	4051380.37	9.7969E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8669E-04	0.00E+00
130	ALL	263704.34	4051333.35	1.0424E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9864E-04	0.00E+00
131	ALL	263684.23	4051286.33	1.0945E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0856E-04	0.00E+00
132	ALL	263664.11	4051239.32	1.1341E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1611E-04	0.00E+00
133	ALL	263644.00	4051192.30	1.1611E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2126E-04	0.00E+00
134	ALL	263623.89	4051145.28	1.1751E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2393E-04	0.00E+00
135	ALL	264212.33	4051691.85	5.7547E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0966E-04	0.00E+00
136	ALL	264265.79	4051691.08	5.7315E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0922E-04	0.00E+00
137	ALL	264319.24	4051690.32	5.6665E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0798E-04	0.00E+00
138	ALL	264372.69	4051689.55	5.5572E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0590E-04	0.00E+00
139	ALL	264426.15	4051688.79	5.4120E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0313E-04	0.00E+00
140	ALL	264479.60	4051688.02	5.2431E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.9910E-05	0.00E+00
141	ALL	264533.05	4051687.25	5.0513E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.6256E-05	0.00E+00
142	ALL	264586.50	4051686.49	4.8465E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2353E-05	0.00E+00
143	ALL	264977.91	4051028.20	1.4142E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6948E-04	0.00E+00
144	ALL	264977.91	4050969.84	1.5520E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9574E-04	0.00E+00
145	ALL	264977.91	4050911.49	1.6525E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1489E-04	0.00E+00
146	ALL	265057.35	4051136.69	7.7496E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4767E-04	0.00E+00
147	ALL	265036.79	4051186.84	7.2812E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3875E-04	0.00E+00
148	ALL	265016.23	4051236.98	6.8592E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3071E-04	0.00E+00
149	ALL	264995.67	4051287.13	6.4599E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2310E-04	0.00E+00
150	ALL	264975.11	4051337.27	6.0594E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1547E-04	0.00E+00
151	ALL	264954.55	4051387.42	5.6674E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0800E-04	0.00E+00
152	ALL	264884.14	4051458.84	5.5459E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0568E-04	0.00E+00
153	ALL	264834.30	4051480.12	5.7794E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1013E-04	0.00E+00
154	ALL	264784.45	4051501.39	5.9839E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1403E-04	0.00E+00
155	ALL	264734.61	4051522.67	6.1523E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1724E-04	0.00E+00
156	ALL	264684.76	4051543.95	6.2694E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1947E-04	0.00E+00
157	ALL	264634.92	4051565.22	6.3258E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2054E-04	0.00E+00
158	ALL	265077.91	4051028.20	9.4998E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8103E-04	0.00E+00
159	ALL	265077.91	4050969.84	1.0760E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0504E-04	0.00E+00
160	ALL	265077.91	4050911.49	1.1891E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2658E-04	0.00E+00
161	ALL	265156.32	4051139.20	5.9343E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1308E-04	0.00E+00
162	ALL	265134.73	4051191.85	5.6384E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0744E-04	0.00E+00
163	ALL	265113.14	4051244.51	5.3677E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0228E-04	0.00E+00
164	ALL	265091.56	4051297.16	5.1126E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.7424E-05	0.00E+00
165	ALL	265069.97	4051349.81	4.8557E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2529E-05	0.00E+00
166	ALL	265048.38	4051402.46	4.5960E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7581E-05	0.00E+00
167	ALL	265026.79	4051455.11	4.3433E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.2764E-05	0.00E+00
168	ALL	264952.86	4051530.11	4.2742E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1448E-05	0.00E+00
169	ALL	264900.53	4051552.45	4.4397E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.4602E-05	0.00E+00
170	ALL	264848.19	4051574.79	4.5878E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7424E-05	0.00E+00
171	ALL	264795.85	4051597.13	4.7119E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9787E-05	0.00E+00
172	ALL	264743.52	4051619.47	4.8043E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1548E-05	0.00E+00
173	ALL	264691.18	4051641.81	4.8590E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2592E-05	0.00E+00
174	ALL	264638.84	4051664.15	4.8722E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2843E-05	0.00E+00
175	ALL	265177.91	4051028.20	7.0182E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3374E-04	0.00E+00
176	ALL	265177.91	4050969.84	7.8746E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5006E-04	0.00E+00
177	ALL	265177.91	4050911.49	8.7628E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6698E-04	0.00E+00
178	ALL	265177.91	4050853.13	9.6479E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8385E-04	0.00E+00
179	ALL	265177.91	4050794.78	1.0528E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0062E-04	0.00E+00
180	ALL	265177.91	4050736.42	1.1426E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1773E-04	0.00E+00
181	ALL	265177.91	4050678.07	1.2357E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3548E-04	0.00E+00
182	ALL	264799.98	4050482.53	4.2965E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1872E-04	0.00E+00
183	ALL	264805.62	4050520.94	4.5848E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7366E-04	0.00E+00
184	ALL	264798.93	4050534.68	4.7964E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1398E-04	0.00E+00
185	ALL	264810.20	4050572.04	4.8331E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2098E-04	0.00E+00
186	ALL	264801.39	4050588.60	5.0856E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.6910E-04	0.00E+00
187	ALL	264823.24	4050584.72	4.6124E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7893E-04	0.00E+00
188	ALL	264808.09	4050617.49	4.9739E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4780E-04	0.00E+00
189	ALL	264836.28	4050481.48	3.9236E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.4767E-04	0.00E+00
190	ALL	264857.07	4050481.48	3.7156E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0804E-04	0.00E+00
191	ALL	264854.60	4050497.33	3.8235E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.2860E-04	0.00E+00
192	ALL	264859.89	4050526.58	3.8775E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.3888E-04	0.00E+00
193	ALL	264842.62	4050547.02	4.1828E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.9706E-04	0.00E+00
194	ALL	264858.83	4050545.96	3.9410E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5098E-04	0.00E+00
195	ALL	264840.51	4050513.89	4.0740E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.7632E-04	0.00E+00
196	ALL	264857.42	4050563.93	3.9875E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5984E-04	0.00E+00
197	ALL	264858.13	4050578.38	3.9806E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5853E-04	0.00E+00
198	ALL	264855.66	4050618.55	3.9537E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5341E-04	0.00E+00
199	ALL	264913.45	4050475.48	3.1623E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0259E-04	0.00E+00
200	ALL	264897.94	4050515.30	3.3980E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4751E-04	0.00E+00
201	ALL	264902.88	4050550.89	3.3632E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4088E-04	0.00E+00
202	ALL	264914.15	4050574.50	3.2039E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1052E-04	0.00E+00
203	ALL	264915.92	4050587.89	3.1572E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0163E-04	0.00E+00
204	ALL	264907.11	4050613.97	3.1975E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0930E-04	0.00E+00
205	ALL	264961.02	4050476.89	2.7669E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2725E-04	0.00E+00
206	ALL	264961.73	4050498.74	2.7725E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2832E-04	0.00E+00
207	ALL	264951.86	4050514.95	2.8590E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4480E-04	0.00E+00
208	ALL	264961.73	4050531.87	2.7615E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2623E-04	0.00E+00
209	ALL	264957.85	4050558.65	2.7651E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2691E-04	0.00E+00
210	ALL	264959.96	4050599.17	2.6603E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0693E-04	0.00E+00
211	ALL	264956.44	4050615.73	2.6486E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0471E-04	0.00E+00
212	ALL	264799.23	4050449.74	3.9595E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5450E-04	0.00E+00
213	ALL	264797.16	4050424.45	3.7002E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0509E-04	0.00E+00

214	ALL	264797.58	4050399.16	3.4304E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5368E-04	0.00E+00
215	ALL	264804.21	4050356.46	2.9928E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7030E-04	0.00E+00
216	ALL	264804.62	4050325.78	2.7175E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1784E-04	0.00E+00
217	ALL	264795.50	4050310.03	2.5864E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9286E-04	0.00E+00
218	ALL	264796.75	4050295.10	2.4638E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6949E-04	0.00E+00
219	ALL	264849.81	4050421.13	3.3788E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4386E-04	0.00E+00
220	ALL	264843.59	4050404.97	3.2893E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.2679E-04	0.00E+00
221	ALL	264849.40	4050390.04	3.1467E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9962E-04	0.00E+00
222	ALL	264849.40	4050370.14	2.9948E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7068E-04	0.00E+00
223	ALL	264851.47	4050350.24	2.8388E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4094E-04	0.00E+00
224	ALL	264845.25	4050332.41	2.7194E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1819E-04	0.00E+00
225	ALL	264848.15	4050314.59	2.5838E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9237E-04	0.00E+00
226	ALL	264842.76	4050292.61	2.4331E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6365E-04	0.00E+00
227	ALL	264905.78	4050443.11	3.1199E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9451E-04	0.00E+00
228	ALL	264904.54	4050427.35	3.0631E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8369E-04	0.00E+00
229	ALL	264908.27	4050399.58	2.9124E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.5497E-04	0.00E+00
230	ALL	264899.15	4050377.60	2.8448E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4210E-04	0.00E+00
231	ALL	264902.46	4050355.63	2.7100E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1641E-04	0.00E+00
232	ALL	264897.90	4050342.36	2.6508E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0513E-04	0.00E+00
233	ALL	264895.42	4050320.81	2.5326E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.8260E-04	0.00E+00
234	ALL	264894.59	4050281.42	2.3059E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3941E-04	0.00E+00
235	ALL	264942.26	4050439.79	2.8449E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4210E-04	0.00E+00
236	ALL	264949.31	4050402.89	2.6940E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1336E-04	0.00E+00
237	ALL	264951.80	4050382.16	2.6114E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9762E-04	0.00E+00
238	ALL	264951.38	4050340.71	2.4557E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6794E-04	0.00E+00
239	ALL	264938.95	4050317.49	2.3964E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5665E-04	0.00E+00
240	ALL	264948.90	4050302.98	2.3033E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3890E-04	0.00E+00
241	ALL	264930.24	4050282.25	2.2500E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2876E-04	0.00E+00
242	ALL	264955.94	4050279.35	2.1835E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1607E-04	0.00E+00
243	ALL	265016.98	4050428.89	2.3463E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4711E-04	0.00E+00
244	ALL	265040.61	4050433.03	2.2134E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2177E-04	0.00E+00
245	ALL	265031.00	4050381.17	2.2169E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2244E-04	0.00E+00
246	ALL	265030.24	4050361.28	2.1879E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1692E-04	0.00E+00
247	ALL	265000.04	4050360.88	2.3205E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4219E-04	0.00E+00
248	ALL	265031.30	4050326.39	2.1123E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0252E-04	0.00E+00
249	ALL	265001.09	4050325.99	2.2216E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2334E-04	0.00E+00
250	ALL	265028.12	4050307.01	2.0766E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9571E-04	0.00E+00
251	ALL	264997.92	4050306.61	2.1729E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1407E-04	0.00E+00
252	ALL	265000.34	4050342.40	2.2710E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3275E-04	0.00E+00
253	ALL	264992.94	4050282.14	2.1053E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0119E-04	0.00E+00
254	ALL	265032.05	4050278.62	1.9896E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7912E-04	0.00E+00
255	ALL	265076.46	4050363.90	1.9921E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7961E-04	0.00E+00
256	ALL	265098.66	4050363.19	1.8997E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6200E-04	0.00E+00
257	ALL	265119.10	4050364.60	1.8187E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4657E-04	0.00E+00
258	ALL	265138.13	4050368.83	1.7460E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3271E-04	0.00E+00
259	ALL	265157.51	4050348.04	1.6709E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1840E-04	0.00E+00
260	ALL	265154.34	4050323.02	1.6723E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1867E-04	0.00E+00
261	ALL	265135.66	4050309.98	1.7246E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2863E-04	0.00E+00
262	ALL	265112.40	4050309.98	1.8008E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4315E-04	0.00E+00
263	ALL	265097.25	4050311.04	1.8526E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5303E-04	0.00E+00
264	ALL	265075.40	4050317.03	1.9362E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6895E-04	0.00E+00
265	ALL	265073.28	4050276.15	1.8681E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5598E-04	0.00E+00
266	ALL	265093.02	4050275.09	1.8100E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4490E-04	0.00E+00
267	ALL	265113.81	4050277.91	1.7548E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3440E-04	0.00E+00
268	ALL	265129.32	4050275.09	1.7065E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2519E-04	0.00E+00
269	ALL	265155.04	4050273.33	1.6321E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1100E-04	0.00E+00
270	ALL	264829.20	4050178.82	1.7333E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3029E-04	0.00E+00
271	ALL	264847.25	4050177.85	1.7431E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3216E-04	0.00E+00
272	ALL	264867.73	4050177.85	1.7554E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3451E-04	0.00E+00
273	ALL	264891.64	4050175.41	1.7524E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3393E-04	0.00E+00
274	ALL	264905.29	4050180.29	1.7769E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3860E-04	0.00E+00
275	ALL	264890.66	4050227.12	2.0099E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8299E-04	0.00E+00
276	ALL	264874.56	4050223.70	1.9948E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8012E-04	0.00E+00
277	ALL	264676.03	4050241.75	1.8637E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5513E-04	0.00E+00
278	ALL	264810.66	4050214.92	1.9163E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6517E-04	0.00E+00
279	ALL	264827.73	4050233.95	2.0445E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8959E-04	0.00E+00
280	ALL	264853.59	4050231.99	2.0410E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8893E-04	0.00E+00
281	ALL	264458.11	4050150.79	9.9696E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8998E-04	0.00E+00
282	ALL	264456.39	4050122.10	9.1785E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7490E-04	0.00E+00
283	ALL	264254.94	4050226.55	1.0103E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9253E-04	0.00E+00
284	ALL	264257.81	4050207.61	9.6050E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8303E-04	0.00E+00
285	ALL	264147.62	4050217.94	9.1183E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7375E-04	0.00E+00
286	ALL	263877.88	4050316.53	9.4617E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8030E-04	0.00E+00
287	ALL	264426.28	4051615.26	6.6701E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2710E-04	0.00E+00
288	ALL	264464.84	4051637.66	6.0682E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1563E-04	0.00E+00
289	ALL	264602.52	4051606.56	5.8527E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1153E-04	0.00E+00
290	ALL	264435.81	4051528.18	9.1735E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7481E-04	0.00E+00
291	ALL	264454.48	4051512.83	9.6619E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8411E-04	0.00E+00
292	ALL	264558.56	4051508.69	8.5089E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6214E-04	0.00E+00
293	ALL	264586.35	4051559.69	6.8445E-07	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3043E-04	0.00E+00
294	ALL	263662.67	4051098.35	1.3191E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5136E-04	0.00E+00
295	ALL	263570.95	4051086.16	1.1170E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1285E-04	0.00E+00
296	ALL	263573.88	4051045.66	1.1518E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1948E-04	0.00E+00
297	ALL	263663.65	4051078.35	1.3446E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5622E-04	0.00E+00
298	ALL	263666.58	4051041.76	1.3917E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6520E-04	0.00E+00
299	ALL	264008.03	4050311.14	1.0488E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9985E-04	0.00E+00
300	ALL	264021.02	4050310.63	1.0596E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0191E-04	0.00E+00
301	ALL	264045.21	4050314.20	1.0937E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0842E-04	0.00E+00
302	ALL	264053.37	4050304.01	1.0703E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0396E-04	0.00E+00
303	ALL	264082.15	4050301.97	1.0912E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0793E-04	0.00E+00
304	ALL	264093.86	4050302.99	1.1055E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1067E-04	0.00E+00
305	ALL	264120.86	4050360.81	1.3569E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5857E-04	0.00E+00
306	ALL	264128.56	4050391.54	1.5211E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8986E-04	0.00E+00
307	ALL	264029.80	4050507.97	2.0519E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9099E-04	0.00E+00
308	ALL	264060.11	4050558.41	2.6689E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0857E-04	0.00E+00
309	ALL	264022.92	4050662.35	3.4422E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5594E-04	0.00E+00
310	ALL	264008.91	4050634.58	3.0390E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7910E-04	0.00E+00
311	ALL	264050.98	4050597.19	3.0524E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8166E-04	0.00E+00
312	ALL	264835.64	4050834.29	3.0033E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7229E-04	0.00E+00
313	ALL	264860.90	4050818.21	2.7891E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.3147E-04	0.00E+00
314	ALL	264861.48	4050792.94	2.9209E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.5660E-04	0.00E+00
315	ALL	264883.30	4050777.44	2.7486E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2376E-04	0.00E+00
316	ALL	264905.70	4050735.52	2.7068E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1581E-04	0.00E+00
317	ALL	264928.09	4050751.02	2.4178E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6072E-04	0.00E+00
318	ALL	264937.28	4050730.35	2.4175E-06	70YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6067E-04	0.00E+00

Health Risk Summary (Summary of HARP2 Results - Operational DPM Starting After Construction)

Selma Mixed-use Project - Operations

	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
Maximum Risk	3.265E-06	3.26	9.691E-04	0.00E+00

	X	Y
MEI UTM	264801.39	4050588.60
Receptor # 186		

*HARP - HRACalc v22118 1/15/2024 7:48:15 AM - Cancer Risk - Input File: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionHRAInput.hra
*HARP - HRACalc v22118 1/15/2024 7:48:15 AM - Chronic Risk - Input File: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionHRAInput.hra
*HARP - HRACalc v22118 1/15/2024 7:48:15 AM - Acute Risk - Input File: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionHRAInput.hra

REC	GRP	X	Y	RISK_SUM	SCENARIO	MAXHI NonCancerChronic	MAXHI Acute
1	ALL	264814.83	4050642.58	3.0305E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9955E-04	0.00E+00
2	ALL	264806.10	4050501.48	2.8321E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.4064E-04	0.00E+00
3	ALL	264802.66	4050552.80	3.1256E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2778E-04	0.00E+00
4	ALL	264856.30	4050593.92	2.5671E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.6198E-04	0.00E+00
5	ALL	264854.46	4050637.24	2.5068E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.4408E-04	0.00E+00
6	ALL	264803.61	4050383.01	2.0854E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1901E-04	0.00E+00
7	ALL	264852.72	4050443.86	2.2606E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.7101E-04	0.00E+00
8	ALL	264897.66	4050487.38	2.1439E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3637E-04	0.00E+00
9	ALL	264903.98	4050532.24	2.1495E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3802E-04	0.00E+00
10	ALL	264956.02	4050583.56	1.7561E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2125E-04	0.00E+00
11	ALL	264957.85	4050630.40	1.6634E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9374E-04	0.00E+00
12	ALL	264611.68	4050195.99	9.2558E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7474E-04	0.00E+00
13	ALL	264656.79	4050213.78	1.0533E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1264E-04	0.00E+00
14	ALL	264701.90	4050231.57	1.1897E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5313E-04	0.00E+00
15	ALL	264799.58	4050276.69	1.4907E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4248E-04	0.00E+00
16	ALL	264844.27	4050277.07	1.4929E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4314E-04	0.00E+00
17	ALL	264894.76	4050302.33	1.5575E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6232E-04	0.00E+00
18	ALL	264946.24	4050365.22	1.6530E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9065E-04	0.00E+00
19	ALL	264956.76	4050418.62	1.7301E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1354E-04	0.00E+00
20	ALL	265000.03	4050427.25	1.5698E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6597E-04	0.00E+00
21	ALL	265002.67	4050499.30	1.5742E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6727E-04	0.00E+00
22	ALL	265021.48	4050543.99	1.4557E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3210E-04	0.00E+00
23	ALL	265040.29	4050588.69	1.3186E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9140E-04	0.00E+00
24	ALL	265059.10	4050633.38	1.1810E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5056E-04	0.00E+00
25	ALL	264566.58	4050178.20	8.1299E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4132E-04	0.00E+00
26	ALL	264512.51	4050179.42	7.5211E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2325E-04	0.00E+00
27	ALL	264458.45	4050180.65	6.9972E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0770E-04	0.00E+00
28	ALL	264404.38	4050181.88	6.5701E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9502E-04	0.00E+00
29	ALL	264350.31	4050183.10	6.2329E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8501E-04	0.00E+00
30	ALL	264296.25	4050184.33	5.9652E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7706E-04	0.00E+00
31	ALL	264242.18	4050185.55	5.7452E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7053E-04	0.00E+00
32	ALL	264188.12	4050186.78	5.5541E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6486E-04	0.00E+00
33	ALL	264612.43	4050097.20	6.7672E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0087E-04	0.00E+00
34	ALL	264660.54	4050116.18	7.6670E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2758E-04	0.00E+00
35	ALL	264708.65	4050135.16	8.6743E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5748E-04	0.00E+00
36	ALL	264811.22	4050192.14	1.1469E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4045E-04	0.00E+00
37	ALL	264853.00	4050192.09	1.1683E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4678E-04	0.00E+00
38	ALL	264911.84	4050226.19	1.2806E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8012E-04	0.00E+00
39	ALL	264949.22	4050230.05	1.2708E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7721E-04	0.00E+00
40	ALL	265013.17	4050278.72	1.3102E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8892E-04	0.00E+00
41	ALL	265037.47	4050344.37	1.3649E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0514E-04	0.00E+00
42	ALL	265000.79	4050380.76	1.5169E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5026E-04	0.00E+00
43	ALL	265137.78	4050582.73	9.9488E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9531E-04	0.00E+00
44	ALL	265157.85	4050630.40	8.9009E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6420E-04	0.00E+00
45	ALL	264564.31	4050078.22	5.9976E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7803E-04	0.00E+00
46	ALL	264510.25	4050079.45	5.6085E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6648E-04	0.00E+00
47	ALL	264456.18	4050080.68	5.2815E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5677E-04	0.00E+00
48	ALL	264402.11	4050081.90	5.0178E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4894E-04	0.00E+00
49	ALL	264348.05	4050083.13	4.8106E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4279E-04	0.00E+00
50	ALL	264293.98	4050084.35	4.6443E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3786E-04	0.00E+00
51	ALL	264239.92	4050085.58	4.5061E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3375E-04	0.00E+00
52	ALL	264185.85	4050086.80	4.3837E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3012E-04	0.00E+00
53	ALL	264051.98	4050628.06	2.2089E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5567E-04	0.00E+00
54	ALL	264064.03	4050609.99	2.1471E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3732E-04	0.00E+00
55	ALL	263998.93	4050606.77	1.7432E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1742E-04	0.00E+00
56	ALL	264015.34	4050565.60	1.5846E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.7036E-04	0.00E+00
57	ALL	264072.34	4050506.66	1.4141E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1976E-04	0.00E+00
58	ALL	264036.03	4050455.24	1.0945E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2488E-04	0.00E+00
59	ALL	264117.44	4050346.96	8.2967E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4627E-04	0.00E+00
60	ALL	264162.34	4050317.96	7.8881E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3414E-04	0.00E+00
61	ALL	263719.56	4050641.53	9.6500E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8644E-04	0.00E+00
62	ALL	263739.65	4050591.11	9.3721E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7819E-04	0.00E+00
63	ALL	263759.73	4050540.69	8.9133E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6457E-04	0.00E+00
64	ALL	263779.81	4050490.27	8.3047E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4651E-04	0.00E+00
65	ALL	263799.90	4050439.86	7.6048E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2573E-04	0.00E+00
66	ALL	263819.98	4050389.44	6.8838E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0433E-04	0.00E+00
67	ALL	263875.69	4050330.54	6.2787E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8637E-04	0.00E+00
68	ALL	264138.40	4050208.53	5.6769E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6851E-04	0.00E+00
69	ALL	263699.48	4050691.94	9.7441E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8923E-04	0.00E+00
70	ALL	263700.09	4050749.84	1.0150E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0129E-04	0.00E+00
71	ALL	263700.70	4050807.73	1.0389E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0837E-04	0.00E+00
72	ALL	263701.32	4050865.63	1.0448E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1014E-04	0.00E+00
73	ALL	263701.93	4050923.52	1.0337E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0683E-04	0.00E+00
74	ALL	263702.54	4050981.41	1.0074E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9904E-04	0.00E+00
75	ALL	263703.16	4051039.31	9.6897E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8762E-04	0.00E+00
76	ALL	263703.77	4051097.20	9.2127E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7346E-04	0.00E+00
77	ALL	263620.57	4050640.06	8.0005E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3748E-04	0.00E+00
78	ALL	263641.66	4050587.13	7.8395E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3270E-04	0.00E+00
79	ALL	263662.75	4050534.19	7.5319E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2357E-04	0.00E+00
80	ALL	263683.84	4050481.25	7.0984E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1070E-04	0.00E+00
81	ALL	263704.93	4050428.31	6.5782E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9526E-04	0.00E+00
82	ALL	263726.01	4050375.37	6.0196E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7868E-04	0.00E+00
83	ALL	263747.10	4050322.44	5.4702E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6237E-04	0.00E+00
84	ALL	263820.40	4050246.66	4.9187E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4600E-04	0.00E+00
85	ALL	263872.61	4050223.82	4.8668E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4446E-04	0.00E+00
86	ALL	263924.81	4050200.99	4.8063E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4266E-04	0.00E+00
87	ALL	263977.02	4050178.15	4.7373E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4062E-04	0.00E+00
88	ALL	264029.23	4050155.31	4.6587E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3828E-04	0.00E+00
89	ALL	264081.44	4050132.48	4.5713E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3569E-04	0.00E+00
90	ALL	264133.64	4050109.64	4.4783E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3293E-04	0.00E+00
91	ALL	263599.48	4050693.00	8.0133E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3786E-04	0.00E+00
92	ALL	263600.10	4050750.90	8.2438E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4470E-04	0.00E+00
93	ALL	263600.71	4050808.79	8.3576E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4808E-04	0.00E+00
94	ALL	263601.32	4050866.68	8.3595E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4814E-04	0.00E+00
95	ALL	263601.94	4050924.58	8.2659E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4536E-04	0.00E+00
96	ALL	263602.55	4050982.47	8.0909E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4016E-04	0.00E+00
97	ALL	263603.16	4051040.37	7.8526E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3309E-04	0.00E+00

98	ALL	263603.77	4051098.26	7.5582E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2435E-04	0.00E+00
99	ALL	264166.37	4051574.11	5.0958E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5126E-04	0.00E+00
100	ALL	264121.83	4051556.35	5.2608E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5616E-04	0.00E+00
101	ALL	264077.30	4051538.60	5.4202E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6089E-04	0.00E+00
102	ALL	264032.76	4051520.85	5.5676E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6526E-04	0.00E+00
103	ALL	263988.22	4051503.10	5.7226E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6986E-04	0.00E+00
104	ALL	263943.69	4051485.34	5.8631E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7403E-04	0.00E+00
105	ALL	263899.15	4051467.59	5.9827E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7758E-04	0.00E+00
106	ALL	263835.76	4051405.76	6.6472E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9731E-04	0.00E+00
107	ALL	263816.90	4051361.68	7.2204E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1432E-04	0.00E+00
108	ALL	263798.05	4051317.60	7.7624E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3041E-04	0.00E+00
109	ALL	263779.19	4051273.52	8.2399E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4458E-04	0.00E+00
110	ALL	263760.34	4051229.44	8.6337E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5627E-04	0.00E+00
111	ALL	263741.48	4051185.36	8.9301E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6507E-04	0.00E+00
112	ALL	263722.62	4051141.28	9.1214E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7075E-04	0.00E+00
113	ALL	264210.90	4051591.86	4.8871E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4506E-04	0.00E+00
114	ALL	264371.26	4051589.56	4.8254E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4323E-04	0.00E+00
115	ALL	264424.71	4051588.80	4.6753E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3878E-04	0.00E+00
116	ALL	264478.17	4051588.03	4.4941E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3340E-04	0.00E+00
117	ALL	264531.62	4051587.26	4.2847E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2718E-04	0.00E+00
118	ALL	264585.07	4051586.50	4.0553E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2037E-04	0.00E+00
119	ALL	264164.83	4051672.91	3.8740E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1499E-04	0.00E+00
120	ALL	264117.32	4051653.98	4.0432E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2001E-04	0.00E+00
121	ALL	264069.82	4051635.04	4.1969E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2457E-04	0.00E+00
122	ALL	264022.32	4051616.10	4.3422E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2889E-04	0.00E+00
123	ALL	263974.81	4051597.17	4.4830E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3307E-04	0.00E+00
124	ALL	263927.31	4051578.23	4.6068E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3674E-04	0.00E+00
125	ALL	263879.80	4051559.30	4.7239E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4022E-04	0.00E+00
126	ALL	263832.30	4051540.36	4.8264E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4326E-04	0.00E+00
127	ALL	263764.68	4051474.41	5.3442E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5863E-04	0.00E+00
128	ALL	263744.57	4051427.39	5.8438E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7346E-04	0.00E+00
129	ALL	263724.45	4051380.37	6.2894E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8669E-04	0.00E+00
130	ALL	263704.34	4051333.35	6.6921E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9864E-04	0.00E+00
131	ALL	263684.23	4051286.33	7.0264E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0856E-04	0.00E+00
132	ALL	263664.11	4051239.32	7.2805E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1611E-04	0.00E+00
133	ALL	263644.00	4051192.30	7.4540E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2126E-04	0.00E+00
134	ALL	263623.89	4051145.28	7.5441E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2393E-04	0.00E+00
135	ALL	264212.33	4051691.85	3.6943E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0966E-04	0.00E+00
136	ALL	264265.79	4051691.08	3.6795E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0922E-04	0.00E+00
137	ALL	264319.24	4051690.32	3.6377E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0798E-04	0.00E+00
138	ALL	264372.69	4051689.55	3.5676E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0590E-04	0.00E+00
139	ALL	264426.15	4051688.79	3.4744E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0313E-04	0.00E+00
140	ALL	264479.60	4051688.02	3.3659E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.9910E-05	0.00E+00
141	ALL	264533.05	4051687.25	3.2428E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.6256E-05	0.00E+00
142	ALL	264586.50	4051686.49	3.1113E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2353E-05	0.00E+00
143	ALL	264977.91	4051028.20	9.0786E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6948E-04	0.00E+00
144	ALL	264977.91	4050969.84	9.9631E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9574E-04	0.00E+00
145	ALL	264977.91	4050911.49	1.0609E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1489E-04	0.00E+00
146	ALL	265057.35	4051136.69	4.9750E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4767E-04	0.00E+00
147	ALL	265036.79	4051186.84	4.6743E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3875E-04	0.00E+00
148	ALL	265016.23	4051236.98	4.4034E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3071E-04	0.00E+00
149	ALL	264995.67	4051287.13	4.1471E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2310E-04	0.00E+00
150	ALL	264975.11	4051337.27	3.8900E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1547E-04	0.00E+00
151	ALL	264954.55	4051387.42	3.6383E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0800E-04	0.00E+00
152	ALL	264884.14	4051458.84	3.5603E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0568E-04	0.00E+00
153	ALL	264834.30	4051480.12	3.7102E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1013E-04	0.00E+00
154	ALL	264784.45	4051501.39	3.8415E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1403E-04	0.00E+00
155	ALL	264734.61	4051522.67	3.9496E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1724E-04	0.00E+00
156	ALL	264684.76	4051543.95	4.0248E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1947E-04	0.00E+00
157	ALL	264634.92	4051565.22	4.0610E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2054E-04	0.00E+00
158	ALL	265077.91	4051028.20	6.0986E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8103E-04	0.00E+00
159	ALL	265077.91	4050969.84	6.9076E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0504E-04	0.00E+00
160	ALL	265077.91	4050911.49	7.6334E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2658E-04	0.00E+00
161	ALL	265156.32	4051139.20	3.8097E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1308E-04	0.00E+00
162	ALL	265134.73	4051191.85	3.6197E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0744E-04	0.00E+00
163	ALL	265113.14	4051244.51	3.4459E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0228E-04	0.00E+00
164	ALL	265091.56	4051297.16	3.2821E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.7424E-05	0.00E+00
165	ALL	265069.97	4051349.81	3.1172E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2529E-05	0.00E+00
166	ALL	265048.38	4051402.46	2.9505E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7581E-05	0.00E+00
167	ALL	265026.79	4051455.11	2.7883E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.2764E-05	0.00E+00
168	ALL	264952.86	4051530.11	2.7439E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1448E-05	0.00E+00
169	ALL	264900.53	4051552.45	2.8502E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.4602E-05	0.00E+00
170	ALL	264848.19	4051574.79	2.9453E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7424E-05	0.00E+00
171	ALL	264795.85	4051597.13	3.0249E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9787E-05	0.00E+00
172	ALL	264743.52	4051619.47	3.0842E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1548E-05	0.00E+00
173	ALL	264691.18	4051641.81	3.1194E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2592E-05	0.00E+00
174	ALL	264638.84	4051664.15	3.1278E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2843E-05	0.00E+00
175	ALL	265177.91	4051028.20	4.5055E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3374E-04	0.00E+00
176	ALL	265177.91	4050969.84	5.0553E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5006E-04	0.00E+00
177	ALL	265177.91	4050911.49	5.6255E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6698E-04	0.00E+00
178	ALL	265177.91	4050853.13	6.1937E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8385E-04	0.00E+00
179	ALL	265177.91	4050794.78	6.7588E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0062E-04	0.00E+00
180	ALL	265177.91	4050736.42	7.3353E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1773E-04	0.00E+00
181	ALL	265177.91	4050678.07	7.9330E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3548E-04	0.00E+00
182	ALL	264799.98	4050482.53	2.7582E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1872E-04	0.00E+00
183	ALL	264805.62	4050520.94	2.9433E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7366E-04	0.00E+00
184	ALL	264798.93	4050534.68	3.0792E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1398E-04	0.00E+00
185	ALL	264810.20	4050572.04	3.1027E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2098E-04	0.00E+00
186	ALL	264801.39	4050588.60	3.2648E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.6910E-04	0.00E+00
187	ALL	264823.24	4050584.72	2.9611E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7893E-04	0.00E+00
188	ALL	264808.09	4050617.49	3.1931E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4780E-04	0.00E+00
189	ALL	264836.28	4050481.48	2.5188E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.4767E-04	0.00E+00
190	ALL	264857.07	4050481.48	2.3853E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0804E-04	0.00E+00
191	ALL	264854.60	4050497.33	2.4546E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.2860E-04	0.00E+00
192	ALL	264859.89	4050526.58	2.4892E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.3888E-04	0.00E+00
193	ALL	264842.62	4050547.02	2.6853E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.9706E-04	0.00E+00
194	ALL	264858.83	4050545.96	2.5300E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5098E-04	0.00E+00
195	ALL	264840.51	4050513.89	2.6154E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.7632E-04	0.00E+00
196	ALL	264857.42	4050563.93	2.5599E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5984E-04	0.00E+00
197	ALL	264858.13	4050578.38	2.5554E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5853E-04	0.00E+00
198	ALL	264855.66	4050618.55	2.5382E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5341E-04	0.00E+00
199	ALL	264913.45	4050475.48	2.0301E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0259E-04	0.00E+00
200	ALL	264897.94	4050515.30	2.1814E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4751E-04	0.00E+00
201	ALL	264902.88	4050550.89	2.1591E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4088E-04	0.00E+00
202	ALL	264914.15	4050574.50	2.0568E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1052E-04	0.00E+00
203	ALL	264915.92	4050587.89	2.0268E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0163E-04	0.00E+00
204	ALL	264907.11	4050613.97	2.0527E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0930E-04	0.00E+00
205	ALL	264961.02	4050476.89	1.7763E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2725E-04	0.00E+00
206	ALL	264961.73	4050498.74	1.7799E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2832E-04	0.00E+00
207	ALL	264951.86	4050514.95	1.8354E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4480E-04	0.00E+00
208	ALL	264961.73	4050531.87	1.7728E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2623E-04	0.00E+00
209	ALL	264957.85	4050558.65	1.7751E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2691E-04	0.00E+00
210	ALL	264959.96	4050599.17	1.7078E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0693E-04	0.00E+00
211	ALL	264956.44	4050615.73	1.7003E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0471E-04	0.00E+00
212	ALL	264799.23	4050449.74	2.5419E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5450E-04	0.00E+00
213	ALL	264797.16	4050424.45	2.3754E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0509E-04	0.00E+00

214	ALL	264797.58	4050399.16	2.2022E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5368E-04	0.00E+00
215	ALL	264804.21	4050356.46	1.9213E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7030E-04	0.00E+00
216	ALL	264804.62	4050325.78	1.7446E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1784E-04	0.00E+00
217	ALL	264795.50	4050310.03	1.6604E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9286E-04	0.00E+00
218	ALL	264796.75	4050295.10	1.5817E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6949E-04	0.00E+00
219	ALL	264849.81	4050421.13	2.1691E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4386E-04	0.00E+00
220	ALL	264843.59	4050404.97	2.1116E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.2679E-04	0.00E+00
221	ALL	264849.40	4050390.04	2.0201E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9962E-04	0.00E+00
222	ALL	264849.40	4050370.14	1.9226E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7068E-04	0.00E+00
223	ALL	264851.47	4050350.24	1.8224E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4094E-04	0.00E+00
224	ALL	264845.25	4050332.41	1.7458E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1819E-04	0.00E+00
225	ALL	264848.15	4050314.59	1.6587E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9237E-04	0.00E+00
226	ALL	264842.76	4050292.61	1.5620E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6365E-04	0.00E+00
227	ALL	264905.78	4050443.11	2.0029E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9451E-04	0.00E+00
228	ALL	264904.54	4050427.35	1.9664E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8369E-04	0.00E+00
229	ALL	264908.27	4050399.58	1.8697E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.5497E-04	0.00E+00
230	ALL	264899.15	4050377.60	1.8263E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4210E-04	0.00E+00
231	ALL	264902.46	4050355.63	1.7398E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1641E-04	0.00E+00
232	ALL	264897.90	4050342.36	1.7017E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0513E-04	0.00E+00
233	ALL	264895.42	4050320.81	1.6258E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.8260E-04	0.00E+00
234	ALL	264894.59	4050281.42	1.4804E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3941E-04	0.00E+00
235	ALL	264942.26	4050439.79	1.8263E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4210E-04	0.00E+00
236	ALL	264949.31	4050402.89	1.7295E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1336E-04	0.00E+00
237	ALL	264951.80	4050382.16	1.6765E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9762E-04	0.00E+00
238	ALL	264951.38	4050340.71	1.5765E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6794E-04	0.00E+00
239	ALL	264938.95	4050317.49	1.5384E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5665E-04	0.00E+00
240	ALL	264948.90	4050302.98	1.4786E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3890E-04	0.00E+00
241	ALL	264930.24	4050282.25	1.4445E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2876E-04	0.00E+00
242	ALL	264955.94	4050279.35	1.4017E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1607E-04	0.00E+00
243	ALL	265016.98	4050428.89	1.5063E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4711E-04	0.00E+00
244	ALL	265040.61	4050433.03	1.4209E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2177E-04	0.00E+00
245	ALL	265031.00	4050381.17	1.4232E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2244E-04	0.00E+00
246	ALL	265030.24	4050361.28	1.4046E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1692E-04	0.00E+00
247	ALL	265000.04	4050360.88	1.4897E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4219E-04	0.00E+00
248	ALL	265031.30	4050326.39	1.3561E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0252E-04	0.00E+00
249	ALL	265001.09	4050325.99	1.4262E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2334E-04	0.00E+00
250	ALL	265028.12	4050307.01	1.3331E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9571E-04	0.00E+00
251	ALL	264997.92	4050306.61	1.3950E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1407E-04	0.00E+00
252	ALL	265000.34	4050342.40	1.4579E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3275E-04	0.00E+00
253	ALL	264992.94	4050282.14	1.3516E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0119E-04	0.00E+00
254	ALL	265032.05	4050278.62	1.2772E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7912E-04	0.00E+00
255	ALL	265076.46	4050363.90	1.2789E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7961E-04	0.00E+00
256	ALL	265098.66	4050363.19	1.2196E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6200E-04	0.00E+00
257	ALL	265119.10	4050364.60	1.1676E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4657E-04	0.00E+00
258	ALL	265138.13	4050368.83	1.1209E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3271E-04	0.00E+00
259	ALL	265157.51	4050348.04	1.0727E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1840E-04	0.00E+00
260	ALL	265154.34	4050323.02	1.0736E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1867E-04	0.00E+00
261	ALL	265135.66	4050309.98	1.1071E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2863E-04	0.00E+00
262	ALL	265112.40	4050309.98	1.1561E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4315E-04	0.00E+00
263	ALL	265097.25	4050311.04	1.1893E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5303E-04	0.00E+00
264	ALL	265075.40	4050317.03	1.2430E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6895E-04	0.00E+00
265	ALL	265073.28	4050276.15	1.1993E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5598E-04	0.00E+00
266	ALL	265093.02	4050275.09	1.1619E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4490E-04	0.00E+00
267	ALL	265113.81	4050277.91	1.1266E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3440E-04	0.00E+00
268	ALL	265129.32	4050275.09	1.0956E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2519E-04	0.00E+00
269	ALL	265155.04	4050273.33	1.0477E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1100E-04	0.00E+00
270	ALL	264829.20	4050178.82	1.1127E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3029E-04	0.00E+00
271	ALL	264847.25	4050177.85	1.1190E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3216E-04	0.00E+00
272	ALL	264867.73	4050177.85	1.1270E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3451E-04	0.00E+00
273	ALL	264891.64	4050175.41	1.1250E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3393E-04	0.00E+00
274	ALL	264905.29	4050180.29	1.1407E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3860E-04	0.00E+00
275	ALL	264890.66	4050227.12	1.2903E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8299E-04	0.00E+00
276	ALL	264874.56	4050223.70	1.2806E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8012E-04	0.00E+00
277	ALL	264676.03	4050241.75	1.1964E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5513E-04	0.00E+00
278	ALL	264810.66	4050214.92	1.2302E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6517E-04	0.00E+00
279	ALL	264827.73	4050233.95	1.3125E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8959E-04	0.00E+00
280	ALL	264853.59	4050231.99	1.3103E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8893E-04	0.00E+00
281	ALL	264458.11	4050150.79	6.4002E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8998E-04	0.00E+00
282	ALL	264456.39	4050122.10	5.8924E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7490E-04	0.00E+00
283	ALL	264254.94	4050226.55	6.4862E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9253E-04	0.00E+00
284	ALL	264257.81	4050207.61	6.1661E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8303E-04	0.00E+00
285	ALL	264147.62	4050217.94	5.8537E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7375E-04	0.00E+00
286	ALL	263877.88	4050316.53	6.0742E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8030E-04	0.00E+00
287	ALL	264426.28	4051615.26	4.2820E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2710E-04	0.00E+00
288	ALL	264464.84	4051637.66	3.8956E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1563E-04	0.00E+00
289	ALL	264602.52	4051606.56	3.7573E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1153E-04	0.00E+00
290	ALL	264435.81	4051528.18	5.8891E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7481E-04	0.00E+00
291	ALL	264454.48	4051512.83	6.2027E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8411E-04	0.00E+00
292	ALL	264558.56	4051508.69	5.4625E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6214E-04	0.00E+00
293	ALL	264586.35	4051559.69	4.3940E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3043E-04	0.00E+00
294	ALL	263662.67	4051098.35	8.4681E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5136E-04	0.00E+00
295	ALL	263570.95	4051086.16	7.1709E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1285E-04	0.00E+00
296	ALL	263573.88	4051045.66	7.3942E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1948E-04	0.00E+00
297	ALL	263663.65	4051078.35	8.6318E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5622E-04	0.00E+00
298	ALL	263666.58	4051041.76	8.9345E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6520E-04	0.00E+00
299	ALL	264008.03	4050311.14	6.7329E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9985E-04	0.00E+00
300	ALL	264021.02	4050310.63	6.8021E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0191E-04	0.00E+00
301	ALL	264045.21	4050314.20	7.0216E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0842E-04	0.00E+00
302	ALL	264053.37	4050304.01	6.8713E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0396E-04	0.00E+00
303	ALL	264082.15	4050301.97	7.0050E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0793E-04	0.00E+00
304	ALL	264093.86	4050302.99	7.0973E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1067E-04	0.00E+00
305	ALL	264120.86	4050360.81	8.7111E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5857E-04	0.00E+00
306	ALL	264128.56	4050391.54	9.7650E-07	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8986E-04	0.00E+00
307	ALL	264029.80	4050507.97	1.3172E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9099E-04	0.00E+00
308	ALL	264060.11	4050558.41	1.7133E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0857E-04	0.00E+00
309	ALL	264022.92	4050662.35	2.2098E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5594E-04	0.00E+00
310	ALL	264008.91	4050634.58	1.9509E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7910E-04	0.00E+00
311	ALL	264050.98	4050597.19	1.9596E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8166E-04	0.00E+00
312	ALL	264835.64	4050834.29	1.9280E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7229E-04	0.00E+00
313	ALL	264860.90	4050818.21	1.7905E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.3147E-04	0.00E+00
314	ALL	264861.48	4050792.94	1.8752E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.5660E-04	0.00E+00
315	ALL	264883.30	4050777.44	1.7645E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.2376E-04	0.00E+00
316	ALL	264905.70	4050735.52	1.7377E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1581E-04	0.00E+00
317	ALL	264928.09	4050751.02	1.5521E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6072E-04	0.00E+00
318	ALL	264937.28	4050730.35	1.5520E-06	67YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6067E-04	0.00E+00

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard Index
At the Construction MER			
Construction at the Construction MER (Receptor #1)	2.88	0.0015	0.0000
Operations at the Construction MER (Receptor #1)*	3.03		0.0000
Combined 70-Year Exposure Scenario for Construction + Operations at the Construction MER	**5.91**	**0.0015**	**0.0000**
At the Operational MER			
Construction at the Operational MER (Receptor #186)	2.78	0.0014	0.0000
Operations at the Operational MER (Receptor #186)*	3.26	0.0010	0.0000
Combined 70-Year Exposure Scenario for Construction + Operations at the Operational MER	**6.04**	**0.0024**	**0.0000**
Note: *Starting after the construciton period.			

HARP2 - HRACalc (dated 22118) 1/15/2024 7:32:44 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 70

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 0
16 to 70 Years Bin: 54

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True

Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: True
Egg: True

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

```
**********
PIG, CHICKEN, & EGG PATHWAY SETTINGS

Surface area (m^2): 0
Volume (kg): 0
Volume changes per year: 0

Pig
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Chicken
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Egg
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

**********
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA
```

```
OPERATIONS\hra\Ops - Starting 3rd TrimesterCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops - Starting
3rd TrimesterCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA
OPERATIONS\hra\Ops - Starting 3rd TrimesterNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops -
Starting 3rd TrimesterNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA
OPERATIONS\hra\Ops - Starting 3rd TrimesterNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\02 - Ops\SELMA OPERATIONS\hra\Ops - Starting
3rd TrimesterNCAcuteRiskSumByRec.csv
HRA ran successfully
```

HARP2 - HRACalc (dated 22118) 1/15/2024 7:48:15 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 3
Total Exposure Duration: 67

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 13
16<30 Years Bin: 0
16 to 70 Years Bin: 54

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: True
Egg: True

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
PIG, CHICKEN, & EGG PATHWAY SETTINGS

Surface area (m^2): 0
Volume (kg): 0
Volume changes per year: 0

Pig
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Chicken
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Egg
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0014-023\HARP\02 - V2\03 - Ops (After Con)\SELMA OPERATIONS\hra\Ops After ConstructionNCAcuteRiskSumByRec.csv
HRA ran successfully

ATTACHMENT C

Energy Consumption Calculations

Selma Mixed-use Project—Energy Consumption Summary

Summary of Energy Use During Construction		(Annually)
Construction vehicle fuel - Main Project	257,949	gallons (gasoline, diesel)
Construction vehicle fuel - Off-site Improvements	1,254	gallons (gasoline, diesel)
Construction equipment fuel - Main Project	43,196	gallons (diesel)
Construction equipment fuel - Off-site Improvements	1,059	gallons (diesel)
Construction office trailer electricity	54,667	kilowatt hours

Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption (strip mall and fast food)	381,265	gallons (gasoline, diesel)
Operational vehicle fuel consumption (residential land uses)	396,968	gallons (gasoline, diesel)
Operational vehicle fuel consumption (other project land uses)	96,786	gallons (gasoline, diesel)
Total Operational vehicle fuel consumption	*875,019*	*gallons (gasoline, diesel)*
Operational natural gas consumption	24,646,499	kilo-British Thermal Units
Operational electricity consumption	4,956,469	kilowatt hours

Construction Vehicle Fuel Calculations (Page 1 of 3)

California Air Resource Board (CARB). EMFAC2021 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory. Accessed June 1, 2023.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Fresno
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

						Given			*Calculations*	
Region	Calendar Year	Vehicle Class	Model Year	Speed	Fuel	Population	VMT (mi/day)	Fuel Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
Fresno	2023	HHDT	Aggregate	Aggregate	Gasoline	2.1808995	85.06306	0.025059111	3.39449631	288.746245
Fresno	2023	HHDT	Aggregate	Aggregate	Diesel	13888.525	2030441	342.6500036	5.92570046	12031786.9
Fresno	2023	LDA	Aggregate	Aggregate	Gasoline	314421.24	12057532	415.8844778	28.9925022	349578012
Fresno	2023	LDA	Aggregate	Aggregate	Diesel	761.26821	22675	0.51632231	43.9163691	995803.719
Fresno	2023	LDT1	Aggregate	Aggregate	Gasoline	31473.612	1013826	42.23037315	24.0070412	24338969.9
Fresno	2023	LDT1	Aggregate	Aggregate	Diesel	21.084943	249.9674	0.009862018	25.3464781	6335.79387
Fresno	2023	LDT2	Aggregate	Aggregate	Gasoline	141913.33	5488159	236.0127343	23.2536548	127619747
Fresno	2023	LDT2	Aggregate	Aggregate	Diesel	349.57337	14594.71	0.436268757	33.4534728	488243.567
Fresno	2023	LHDT1	Aggregate	Aggregate	Gasoline	12566.315	445086.7	47.83578625	9.30447076	4141295.95
Fresno	2023	LHDT1	Aggregate	Aggregate	Diesel	11243.704	407164.2	25.85688336	15.7468416	6411550.92
Fresno	2023	LHDT2	Aggregate	Aggregate	Gasoline	2111.3619	72373.24	8.811076943	8.21389248	594466
Fresno	2023	LHDT2	Aggregate	Aggregate	Diesel	4095.9075	150992.9	11.5781819	13.0411545	1969121.2
Fresno	2023	MDV	Aggregate	Aggregate	Gasoline	132252.28	4629686	245.507228	18.857635	87304923.1
Fresno	2023	MDV	Aggregate	Aggregate	Diesel	1848.3457	71606.4	2.893296095	24.7490733	1772191.97
Fresno	2023	MHDT	Aggregate	Aggregate	Gasoline	973.64029	53538.05	11.5372138	4.64046636	248441.532
Fresno	2023	MHDT	Aggregate	Aggregate	Diesel	7591.6767	368647.4	42.7665597	8.6199924	3177737.96

Worker
Weighted Average Fuel Economy 25.4140219

Vendor
Weighted Average Fuel Economy 8.09864683

Haul
Weighted Average Fuel Economy 5.92559442

Construction Vehicle Fuel Calculations (Page 2 of 3)

Construction Schedule

Source: CalEEMod Output

Selma Mixed-use Project Custom Report, 1/14/2024

CalEEMod Run	Phase Name	Start Date	End Date	Num Days Week	Num Days
Project Construction	Site Preparation	3/1/2024	4/11/2024	5	30
Project Construction	Grading	4/12/2024	7/25/2024	5	75
Project Construction	Building Construction	7/26/2024	5/27/2027	5	740
Project Construction	Paving	7/26/2024	10/10/2024	5	55
Project Construction	Architectural Coating	3/12/2027	5/27/2027	5	55

Construction Trips and VMT

	Trips per Day			Construction Trip Length in Miles				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Site Preparation	17.50	2.00	0.00	11.41	8.53	20.00	30	525	60	0	5,990	512	0	235.71	63.20	0.00
Grading	20.00	2.00	41.60	11.41	8.53	20.00	75	1,500	150	3,120	17,115	1,279	62,400	673.45	157.99	10,530.59
Building Construction	508.94	95.05	0.00	11.41	8.53	20.00	740	376,617	70,338	0	4,297,204	599,985	0	169,087.90	74,084.64	0.00
Paving	15.00	2.00	0.00	11.41	8.53	20.00	55	825	110	0	9,413	938	0	370.40	115.86	0.00
Architectural Coating	101.79	2.00	0.00	11.41	8.53	20.00	55	5,598	110	0	63,877	938	0	2,513.47	115.86	0.00

Total Project Construction VMT (miles)

5,059,653

Total Project Fuel Consumption (gallons)

257,949

Construction Vehicle Fuel Calculations (Page 3 of 3)

Construction Schedule - Off-site Improvements

Source: CalEEMod Output

Off-site Pipeline Improvements Custom Report, 5/28/2024

CalEEMod Run	Phase Name	Start Date	End Date	Num Days Week	Num Days
Off-site Improvements	Linear, Grubbing & Land Clearing	6/25/2024	7/4/2024	5	7
Off-site Improvements	Linear, Grading & Excavation	7/5/2024	8/18/2024	5	32
Off-site Improvements	Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	5	21
Off-site Improvements	Linear, Paving	9/18/2024	10/3/2024	5	11

Construction Trips and VMT

	Trips per Day			Construction Trip Length in Miles				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Linear, Grubbing & Land Clearing	4.00	2.00	35.71	11.41	8.53	20.00	7	28	14	250	319	119	5,000	12.57	14.75	843.80
Linear, Grading & Excavation	4.00	2.00	0.00	11.41	8.53	20.00	32	128	64	0	1,460	546	0	57.47	67.41	0.00
Linear, Drainage, Utilities, & Sub-Grade	4.00	8.00	0.00	11.41	8.53	20.00	21	84	168	0	958	1,433	0	37.71	176.95	0.00
Linear, Paving	4.00	2.00	0.00	11.41	8.53	20.00	11	44	22	0	502	188	0	19.75	23.17	0.00

Total Off-site Improvements Construction VMT (miles)

10,526

Total Off-site Improvements Fuel Consumption (gallons)

1,254

Construction Equipment Fuel Calculation (Page 1 of 3)

Source: CalEEMod Output
Selma Mixed-use Project Custom Report, 1/14/2024
Construction Schedule

Construction Area	Phase Type	Start Date	End Date	Num Days Week	Num Days
Project Construction	Site Preparation	3/1/2024	4/11/2024	5	30
Project Construction	Grading	4/12/2024	7/25/2024	5	75
Project Construction	Building Construction	7/26/2024	5/27/2027	5	740
Project Construction	Paving	7/26/2024	10/10/2024	5	55
Project Construction	Architectural Coating	3/12/2027	5/27/2027	5	55

Construction Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Fuel (gallons/HP-hour)	Diesel Fuel Usage
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	30	105,696.00	0.02046	2,162.70
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	30	29,836.80	0.01894	565.15
Grading	Excavators	2	8	36	0.38	75	16,416.00	0.01976	324.43
Grading	Graders	1	8	148	0.41	75	36,408.00	0.02120	771.80
Grading	Rubber Tired Dozers	1	8	367	0.40	75	88,080.00	0.02046	1,802.25
Grading	Scrapers	2	8	423	0.48	75	243,648.00	0.02486	6,058.01
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37	75	37,296.00	0.01894	706.43
Building Construction	Cranes	1	7	367	0.29	740	551,307.40	0.01500	8,267.03
Building Construction	Forklifts	3	8	82	0.20	740	291,264.00	0.02081	6,060.93
Building Construction	Generator Sets	1	8	14	0.74	740	61,331.20	0.04240	2,600.62
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37	740	482,983.20	0.01894	9,148.33
Building Construction	Welders	1	8	46	0.45	740	122,544.00	0.02588	3,171.75
Paving	Pavers	2	8	81	0.42	55	29,937.60	0.02151	644.05
Paving	Paving Equipment	2	8	89	0.36	55	28,195.20	0.01833	516.81
Paving	Rollers	2	8	36	0.38	55	12,038.40	0.01942	233.75
Architectural Coating	Air Compressors	1	6	37	0.48	55	5,860.80	0.02766	162.10

Total Construction Equipment Fuel Consumption (gallons) **43,196.13**

Notes:
Equipment assumptions are provided in the CalEEMod output files.
Source of usage estimates: California Air Resource Board (CARB). 2022. OFFROAD2017 (v1.0.1) Emissions Inventory
Website: https://www.arb.ca.gov/orion/.

Construction Equipment Fuel Calculation (Page 2 of 3)

Source: CalEEMod Output
Off-site Pipeline Improvements Custom Report, 5/28/2024

Construction Schedule

Construction Area	Phase Type	Start Date	End Date	Num Days Week	Num Days
Off-site Improvements	Linear, Grubbing & Land Clearing	6/25/2024	End Date	Num Days Week	7
Off-site Improvements	Linear, Grading & Excavation	7/5/2024	8/18/2024	5	32
Off-site Improvements	Linear, Drainage, Utilities, & Sub-Grade	8/19/2024	9/17/2024	5	21
Off-site Improvements	Linear, Paving	9/18/2024	10/3/2024	5	11

Construction Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Fuel (gallons/HP-hour)	Diesel Fuel Usage
Linear, Grubbing & Land Clearing	Crawler Tractors	1	8	87	0.43	7	2,094.96	0.01894	39.68
Linear, Grubbing & Land Clearing	Excavators	1	8	36	0.38	7	766.08	0.01976	15.14
Linear, Grubbing & Land Clearing	Signal Boards	2	8	6	0.82	7	551.04	0.00000	0.00
Linear, Grading & Excavation	Crawler Tractors	1	8	87	0.43	32	9,576.96	0.01894	181.40
Linear, Grading & Excavation	Excavators	1	8	36	0.38	32	3,502.08	0.01976	69.21
Linear, Grading & Excavation	Rubber Tired Loaders	1	8	150	0.36	32	13,824.00	0.02046	282.86
Linear, Grading & Excavation	Signal Boards	2	8	6	0.82	32	2,519.04	0.00000	0.00
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8	37	0.48	21	2,983.68	0.02766	82.52
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	1	8	14	0.74	21	1,740.48	0.04240	73.80
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	1	8	8	0.43	21	577.92	0.01833	10.59
Linear, Drainage, Utilities, & Sub-Grade	Pumps	1	8	11	0.74	21	1,367.52	0.01833	25.07
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	2	8	6	0.82	21	1,653.12	0.00000	0.00
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	1	8	40	0.50	21	3,360.00	0.02604	87.49
Linear, Paving	Pavers	1	8	81	0.42	11	2,993.76	0.02151	64.40
Linear, Paving	Paving Equipment	1	8	89	0.36	11	2,819.52	0.01833	51.68
Linear, Paving	Rollers	1	8	36	0.38	11	1,203.84	0.01942	23.37
Linear, Paving	Signal Boards	2	8	6	0.82	11	865.92	0.00000	0.00
Linear, Paving	Tractors/Loaders/Backhoes	1	8	84	0.37	11	2,735.04	0.01894	51.81

Total Construction Equipment Fuel Consumption (gallons) **1,059.03**

Notes:
Equipment assumptions are provided in the CalEEMod output files.
Source of usage estimates: California Air Resource Board (CARB). 2022. OFFROAD2017 (v1.0.1) Emissions Inventory
Website: https://www.arb.ca.gov/orion/.

Construction Equipment Fuel Calculation (Page 3 of 3)

OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: County
Region: Fresno
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	Vehicle Class	Model Year	HP_Bin	Fuel	Fuel (gallons/year)	Horsepower Hours (HP-hours/year)	Fuel (gallons/HP-hour)
Fresno	ConstMin - Cranes	Aggregated	75	Diesel	283.187	18885.015	0.014995321
Fresno	ConstMin - Excavators	Aggregated	175	Diesel	247434.805	12520180.193	0.019762879
Fresno	ConstMin - Graders	Aggregated	175	Diesel	151368.953	7140536.907	0.021198539
Fresno	ConstMin - Pavers	Aggregated	175	Diesel	32732.189	1521509.140	0.021512976
Fresno	ConstMin - Paving Equipment	Aggregated	175	Diesel	13696.518	747231.968	0.018329673
Fresno	ConstMin - Rollers	Aggregated	100	Diesel	79011.010	4069235.397	0.019416672
Fresno	ConstMin - Rough Terrain Forklifts	Aggregated	100	Diesel	200971.731	9657888.419	0.020809076
Fresno	ConstMin - Rubber Tired Dozers	Aggregated	300	Diesel	10331.179	504908.236	0.020461498
Fresno	ConstMin - Scrapers	Aggregated	300	Diesel	90981.977	3659218.054	0.024863776
Fresno	ConstMin - Tractors/Loaders/Backhoes	Aggregated	175	Diesel	211438.622	11162834.316	0.018941303
Fresno	ConstMin - Tractors/Loaders/Backhoes	Aggregated	300	Diesel	127421.155	6692059.770	0.019040648
Fresno	ConstMin - Trenchers	Aggregated	100	Diesel	17961.409	689768.533	0.026039763
Fresno	OFF - ConstMin - Cement and Mortar Mixers	Aggregated	25	Diesel	1766.600	55224.500	0.031989425
Fresno	OFF - ConstMin - Concrete/Industrial Saws	Aggregated	50	Diesel	901.550	21319.650	0.04228728
Fresno	OFF - Light Commercial - Generator Sets	Aggregated	50	Diesel	49348.000	1163787.900	0.042402916
Fresno	OFF - Light Commercial - Welders	Aggregated	50	Diesel	82263.700	3178347.000	0.025882542
Fresno	OFF - Light Commercial - Air Compressors	Aggregated	50	Diesel	17928.800	648240.000	0.027657658

Construction Office Electricity Calculation
Energy Appendix: CalEEMod Typical Construction Trailer
Typical Construction Trailer - Fresno County, Annual

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)
General Office Building	16,881	204	0.0330	0.0040	28,756

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	16,881	kWh/yr
Total Over Construction	**54,667**	**kWh**

Total Construction Schedule

Start	3/1/2024
End	5/27/2027
Total Calendar Days	1,182
Years	3.24

Operational Fuel Calculation—Project-generated Operational Trips (Passenger Vehicles)

California Air Resource Board (CARB). EMFAC2021. Website: https://arb.ca.gov/emfac/emissions-inventory/. Accessed May 26, 2023.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Fresno
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled
FE = Fuel Economy

				Given						*Calculations*	
Region	Calendar Year	Vehicle Class	Model Year	Speed	Fuel	Population	VMT	Fuel Consumption		FE	VMT*FE
Fresno	2024	LDA	Aggregate	Aggregate	Gasoline	315119.5806	12133467.41	410.3671735		29.56734406	358754405.4
Fresno	2024	LDA	Aggregate	Aggregate	Diesel	708.812072	21074.60505	0.474386501		44.42496785	936238.6519
										Total VMT	**12154542.01**
									Weighted Average Fuel Economy		**29.5931055**
Fresno	2024	LDT1	Aggregate	Aggregate	Gasoline	30596.80393	993295.8066	40.64748998		24.4368301	24273000.87
Fresno	2024	LDT1	Aggregate	Aggregate	Diesel	18.8924069	217.8616063	0.00859385		25.35087331	5522.981979
Fresno	2024	LDT2	Aggregate	Aggregate	Gasoline	145366.0625	5656653.971	237.1886608		23.84875378	134904147.8
Fresno	2024	LDT2	Aggregate	Aggregate	Diesel	375.2275066	15817.53015	0.461913662		34.24347759	541647.2392
Fresno	2024	MDV	Aggregate	Aggregate	Gasoline	130595.6269	4577942.101	237.8965609		19.24341438	88095236.88
Fresno	2024	MDV	Aggregate	Aggregate	Diesel	1857.31625	70493.78446	2.818651003		25.00975977	1763032.615
										Total VMT	**11314421.06**
									Weighted Average Fuel Economy		**22.05880329**
Fresno	2024	LHDT1	Aggregate	Aggregate	Gasoline	12363.75636	442604.9108	46.68025073		9.481630965	4196616.427
Fresno	2024	LHDT1	Aggregate	Aggregate	Diesel	11041.74007	396666.7609	25.1163181		15.79318909	6264633.159
Fresno	2024	LHDT2	Aggregate	Aggregate	Gasoline	2053.928866	70185.22247	8.437278009		8.318467448	583833.4885
Fresno	2024	LHDT2	Aggregate	Aggregate	Diesel	4082.416061	149342.534	11.38052244		13.12264307	1959768.77
Fresno	2024	MHDT	Aggregate	Aggregate	Gasoline	939.8774941	52454.03356	11.171826		4.695206816	246282.5359
Fresno	2024	MHDT	Aggregate	Aggregate	Diesel	7764.571273	374754.4819	43.22629384		8.669595486	3248969.765
										Total VMT	**1486007.944**
									Weighted Average Fuel Economy		**11.10364464**
Fresno	2024	HHDT	Aggregate	Aggregate	Gasoline	0.917790183	69.44543013	0.018035207		3.850547992	267.4029615
Fresno	2024	HHDT	Aggregate	Aggregate	Diesel	14420.40105	2065363.161	343.6885277		6.009403847	12411601.32
										Total VMT	**2065432.606**
									Weighted Average Fuel Economy		**6.00933126**
Fresno	2024	OBUS	Aggregate	Aggregate	Gasoline	300.7854604	14710.91671	3.105113165		4.737642698	69695.06715
Fresno	2024	OBUS	Aggregate	Aggregate	Diesel	150.8808684	12692.98469	1.947163676		6.518704536	82741.81685
Fresno	2024	SBUS	Aggregate	Aggregate	Gasoline	315.6763807	18881.1255	1.889359024		9.993402658	188686.6897
Fresno	2024	SBUS	Aggregate	Aggregate	Diesel	853.5858604	19294.30333	2.320553465		8.314526519	160422.9967
Fresno	2024	UBUS	Aggregate	Aggregate	Gasoline	89.80815774	4205.592643	0.876027146		4.800756077	20190.02444
Fresno	2024	UBUS	Aggregate	Aggregate	Diesel	17.99174808	1956.602447	0.214585524		9.118054245	17840.40725
										Total VMT	**71741.52531**
									Weighted Average Fuel Economy		**7.521125314**
Fresno	2024	MCY	Aggregate	Aggregate	Gasoline	15858.59323	86629.61026	2.10465997		41.16085804	3565749.09
										Total VMT	**86629.61026**
									Weighted Average Fuel Economy		**41.16085804**

Operational Fuel Calculation—Project-generated Operational Trips

Daily Truck Trips

Selma Mixed-Use Project - Buildout Year Operations

Operational Mobile Sources

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392.04	392.04	392.04	143094.6	1810.31756	1810.31756	1810.31756	660765.9093
Fast Food Restaurant with Drive Thru	4721.08	6222.20	4772.59	1804152.446	12044.94584	15874.75835	12176.35087	4602954.432
Fast Casual Restaurant	699.41	699.41	699.41	255283.92	5336.116839	5336.116839	5336.116839	1947682.646
Automobile Care Center	895.00	901.00	859.00	325110.7121	3871.779725	6874.158248	6553.720239	1709596.235
Strip Mall and Fast Food Total	**6707.53**	**8214.64**	**6723.03**	**2527641.68**	**23063.16**	**29895.35**	**25876.51**	**8920999.22**

	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	2022.00	1365.00	1158.00	658720.7143	15362.37513	10370.74286	8798.036798	5004705.599
Retirement Community	388.80	328.80	324.00	135404.5714	2953.952251	2498.095422	2461.626876	1028751.643
Affordable	865.80	2160.00	1699.20	426956.1429	6578.014041	16410.84584	12909.86539	3243847.889
Residential Total	**3276.60**	**3853.80**	**3181.20**	**1221081.43**	**24894.34**	**29279.68**	**24169.53**	**9277305.13**

	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Hotel	799.00	807.00	594.00	281362.8571	6095.951654	6156.987465	4531.908989	2146651.282
City Park	2.78	7.00	7.82	1498.5075	21.24504002	53.38497236	59.64953544	11432.82763
Other Asphalt Surfaces	0	0	0	0	0	0	0	0
Parking Lot	0	0	0	0	0	0	0	0
Remaining Project Land Uses	**801.78**	**814.00**	**601.82**	**282861.36**	**6117.20**	**6210.37**	**4591.56**	**2158084.11**

		Weekday	Saturday	Sunday	Total Average Daily Trips
Strip Mall, Fast Food, Restaurant, Automobile Care	Trips per Day	6,707.53	8,214.64	6,723.03	**6,925.05**
Residential	Trips per Day	3,276.60	3,853.80	3,181.20	**3,345.43**
Remaining Project Land Uses	Trips per Day	801.78	814.00	601.82	**774.96**
	Total	**10,785.91**	**12,882.44**	**10,506.05**	**11,045.44**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year by Land Use)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall and Fast Food	0.478027	0.043370	0.208499	0.185184	0.032383	0.008490	0.012177	0.004107	0.000627	0.000347	0.021912	0.001842	0.003036
Residential	0.527700	0.209000	0.167500	0.055600	0.000900	0.000900	0.008000	0.021400	0.000000	0.004300	0.002500	0.000200	0.002000
Remaining Land Uses	0.467283	0.042395	0.203812	0.185184	0.032383	0.008490	0.012177	0.020512	0.000627	0.000347	0.021912	0.001842	0.003036
Daily Trips													
Strip Mall and Fast Food	3,310.3595	300.3359	1,443.8627	1,282.4090	224.2524	58.7925	84.3262	28.4420	4.3391	2.4014	151.7415	12.7558	21.0275
Residential	1,765.3827	699.1946	560.3593	186.0058	3.0109	3.0109	26.7634	71.5922	0.0000	14.3853	8.3636	0.6691	6.6909
Remaining Land Uses	362.1268	32.8543	157.9470	143.5108	25.0955	6.5793	9.4367	15.8964	0.4856	0.2687	16.9810	1.4275	2.3531
Project Total	**5,437.8690**	**1,032.3849**	**2,162.1690**	**1,611.9257**	**252.3587**	**68.3826**	**120.5264**	**115.9306**	**4.8246**	**17.0555**	**177.0861**	**14.8524**	**30.0715**
Project Fleet	**0.492318**	**0.093467**	**0.195752**	**0.145936**	**0.022847**	**0.006191**	**0.010912**	**0.010496**	**0.000437**	**0.001544**	**0.016033**	**0.001345**	**0.002723**

	Fraction of 1	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy (miles/gallon)	Total Daily Fuel Consumption (gallons)	Fuel Consumption (gallons)
Passenger Cars (LDA)	0.4923	49.23	10,021,819	27,457	29.59	927.8	338,654
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	0.4352	43.52	8,858,189	24,269	22.06	1100.2	401,572
LHDT1, LHDT2, and MHDT	0.0400	4.00	813,242	2,228	11.10	200.7	73,241
HHDT	0.0105	1.05	213,656	585	6.01	97.4	35,554
MCY	0.0160	1.60	326,364	894	41.16	21.7	7,929
Buses/Other	0.0060	0.60	123,118	337	7.52	44.8	16,370
Total	1.0000	100.0	20,356,388	55,771		2,392.7	873,319

Operational Fuel Calculation—Project-generated Operational Trips (Strip Mall and Fast Food)

Total Operational VMT

Selma Mixed-use Project Custom Report, 1/14/24

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

	Annual VMT (miles)
Total VMT for Strip Mall, Fast Food, Casual Restaurant, and Automobile Care	**8,920,999**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year for Strip Mall, Fast Food, Casual Restaurant, and Automobile Care)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	47.802711	4.336953	20.849865	18.518420	3.238280	0.848983	1.217699	0.410713	0.062658	0.034678	2.191199	0.184199	0.303644
Fast Food	47.802711	4.336953	20.849865	18.518420	3.238280	0.848983	1.217699	0.410713	0.062658	0.034678	2.191199	0.184199	0.303644

	Fraction of 1	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy (miles/gallon)	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	0.4780	47.80	4,264,479	11,684	29.59	394.8	144,104
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	0.4371	43.71	3,898,944	10,682	22.06	484.3	176,752
LHDT1, LHDT2, and MHDT	0.0530	5.30	473,256	1,297	11.10	116.8	42,622
HHDT	0.0041	0.41	36,640	100	6.01	16.7	6,097
MCY	0.0219	2.19	195,477	536	41.16	13.0	4,749
Buses/Other	0.0059	0.59	52,204	143	7.52	19.0	6,941
Total	—	100.0	8,920,999	24,441		1,044.6	381,265

Operational Fuel Calculation—Project-generated Operational Trips (Residential)

Total Operational VMT

Selma Mixed-use Project Custom Report, 1/14/24

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

(miles)

Total VMT for Residential Uses **9,277,305**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year for Residential Uses)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Residential	52.770000	20.900000	16.750000	5.560000	0.090000	0.090000	0.800000	2.140000	0.000000	0.430000	0.250000	0.020000	0.200000

	Fraction of 1	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy (miles/gallon)	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	0.5277	52.77	4,895,634	13,413	29.59	453.2	165,432
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	0.4321	43.21	4,008,724	10,983	22.06	497.9	181,729
LHDT1, LHDT2, and MHDT	0.0098	0.98	90,918	249	11.10	22.4	8,188
HHDT	0.0214	2.14	198,534	544	6.01	90.5	33,038
MCY	0.0025	0.25	23,193	64	41.16	1.5	563
Buses/Other	0.0065	0.65	60,302	165	7.52	22.0	8,018
Total	—	100.0	9,277,305	25,417		1,087.6	396,968

Operational Fuel Calculation—Project-generated Operational Trips (Remaining Project Land Uses)

Total Operational VMT

Selma Mixed-use Project Custom Report, 1/14/24

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Strip Mall	392	392	392	143,095	1,810	1,810	1,810	660,766
Fast Food Restaurant with Drive Thru	4,721	6,222	4,773	1,804,152	12,045	15,875	12,176	4,602,954
Hotel	799	807	594	281,363	6,096	6,157	4,532	2,146,651
Apartments Low Rise	2,022	1,365	1,158	658,721	15,362	10,371	8,798	5,004,706
Retirement Community	389	329	324	135,405	2,954	2,498	2,462	1,028,752
Apartments Low Rise	866	2,160	1,699	426,956	6,578	16,411	12,910	3,243,848
City Park	2.78	7.00	7.82	1,499	21.2	53.4	59.6	11,433
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant w/o Drive Thru	699	699	699	255,284	5,336	5,336	5,336	1,947,683
Automobile Care Center	895	901	859	325,111	3,872	6,874	6,554	1,709,596

	Annual VMT (miles)
Total VMT for Hotel and Park	**2,158,084**

By Vehicle Type (Average Fleet Mix for the 2024 Operational Year for Remaining Project Land Uses - Hotel and Park)

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fleet Mix	46.728286	4.239474	20.381239	18.518420	3.238280	0.848983	1.217699	2.051242	0.062658	0.034678	2.191199	0.184199	0.303644

	Fraction of 1	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy (miles/gallon)	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	0.4673	46.73	1,008,436	2,763	29.59	93.4	34,077
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	0.4314	43.14	930,979	2,551	22.06	115.6	42,204
LHDT1, LHDT2, and MHDT	0.0530	5.30	114,486	314	11.10	28.2	10,311
HHDT	0.0205	2.05	44,268	121	6.01	20.2	7,366
MCY	0.0219	2.19	47,288	130	41.16	3.1	1,149
Buses/Other	0.0059	0.59	12,629	35	7.52	4.6	1,679
Total	—	100.0	2,158,084	5,913		265.2	96,786

Project Operations Natural Gas Use

Source: CalEEMod Output

Selma Mixed-use Project Custom Report, 1/14/24

kBTU/yr = kilo-British Thermal Units/year

CalEEMod Land Use	Natural Gas Use (kBTU/yr)
Strip Mall	70,504.861
Fast Food Restaurant with Drive Thru	1,262,715.410
Fast Food Restaurant w/o Drive Thru (Fast Casual Restaurant)	900,242.693
Automobile Care Center (Vehicle Shop + Car Wash)	635,111.920
Hotel	5,188,238.501
Apartments Low Rise (Multifamily Housing)	8,294,843.040
Retirement Community	3,317,937.216
Apartments Low Rise (Affordable Housing)	4,976,905.824
City Park	0.000
Other Asphalt Surfaces	0.000
Parking Lot	0.000
Total	**24,646,499 kBTU/yr**

Project Operations Electricity Use

Source: CalEEMod Output

Selma Mixed-use Project Custom Report, 1/14/24

kWh/yr = kilowatt hours per year

CalEEMod Land Use	Electricity Use* (kWh/yr)	
Strip Mall	76,033	
Fast Food Restaurant with Drive Thru	451,255	
Fast Food Restaurant w/o Drive Thru (Fast Casual Restaurant)	321,718	
Automobile Care Center (Vehicle Shop + Car Wash)	183,906	
Hotel	924,632	
Apartments Low Rise (Multifamily Housing)	1,474,469	
Retirement Community	589,787	
Apartments Low Rise (Affordable Housing)	884,681	
City Park	0	
Other Asphalt Surfaces	0	
Parking Lot	49,988	
Total	**4,956,469**	**kWh/yr**

*The estimates above account for total consumption and do not account for any reductions due to incorporation of on-site renewable energy.