

CENTERPOINT INDUSTRIAL PROJECT HEALTH RISK ASSESSMENT

Hayward, California

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Introduction

The purpose of this report is to address the potential health risk impacts associated with the construction and operation of the proposed industrial project located at 29469 Ruus Road, 1574-1593 Industrial Parkway West, and 1601-1617 Industrial Parkway West in Hayward, California. Air quality impacts would be associated with demolition of the existing land uses, construction of the new buildings and infrastructure, and operation of the project. Air pollutant emissions associated with construction and operation of the project were predicted using appropriate computer models. In addition, the potential project health risk impacts (construction and operation) and the impact of existing toxic air contaminant (TAC) sources affecting the nearby sensitive receptors were evaluated. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).¹

Project Description

The approximate 7.6-acre project site consists of three separate parcels located at 29469 Ruus Road, 1571-1593 Industrial Parkway West, and 1601-1617 Industrial Parkway West. The site is currently developed with five one-story industrial buildings totaling approximately 72,082 square feet (sf) and pavement.

The project proposes to demolish the existing uses and construct a two-story, 103,406-sf industrial building consisting of 97,646-sf of warehouse and up to 5,670-sf of office space. There will be 115 auto parking spaces and 57 truck trailer parking spaces. The project site would be accessed via three full-access driveways, including one on Ruus Road and two on Industrial Parkway West, with passenger vehicles primarily using the western exit on Industrial Parkway West and future trucks using the driveway on Ruus Road or the eastern driveway on Industrial Parkway West. A total of 16 loading docks are proposed. The project also proposes a 76-kilowatt (kW) emergency generator powered by a 102-horsepower (hp) diesel engine. The exact usage of the proposed building is currently unknown, but the project applicant conservatively assumes that the project would be used as a warehouse facility.

Setting

The project is located in Alameda County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}).

Air Pollutants of Concern

High ozone concentrations in the air basin are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO_x). These precursor pollutants react under certain meteorological conditions to form ozone concentrations. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ambient ozone concentrations. The highest ozone concentrations in the Bay Area occur in the eastern and southern

¹ Bay Area Air Quality Management District, 2022 *CEQA Guidelines*, April 2023

inland valleys that are downwind of air pollutant sources. High ozone concentrations aggravate respiratory and cardiovascular diseases, reduce lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant in the air basin. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM₁₀) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM_{2.5}). Elevated concentrations of PM₁₀ and PM_{2.5} are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure of TACs can result in adverse health effects, they are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects from diesel exhaust exposure a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. The most recent Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines were published in February of 2015 and incorporated into BAAQMD's current CEQA guidance²

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site

² OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

are the adjacent single-family residences to the west as well as the single-family residences to the north and east. This project would not introduce new sensitive receptors (i.e., residents) to the area.

Regulatory Setting

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide ambient air quality standards (NAAQS) and emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards.

In the past twenty years, the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of nitrogen oxides, or NO_x, and particulate matter (PM₁₀ and PM_{2.5}) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO_x emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.³

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The current standards limit the amount of sulfur allowed in diesel fuel to 15 parts per million by weight (ppmw). Ultra-low sulfur diesel (ULSD), as it is referred to, is required for use by all vehicles in the U.S.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

State Regulations

The CARB has set statewide ambient air quality standards (CAAQS) and emission standards for on-road and off-road mobile sources that are more stringent than those adopted by the EPA. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. These regulations include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations. In 2008, CARB approved a regulation to reduce emissions of DPM and NO_x from on-road heavy-duty diesel fueled vehicles.⁴ The regulation requires affected vehicles to meet specific performance requirements between 2014 and 2023, with all affected diesel vehicles

³ USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

⁴ Available online: <http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>. Accessed: November 21, 2014.

required to have 2010 model-year engines or equivalent by 2023. These requirements have been phased in over the compliance period and depend on the model year of the vehicle.

CARB has also adopted and implemented regulations to reduce DPM and NO_x emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce DPM and NO_x exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with the Federal off-road equipment engine emission limits for new vehicles, has significantly reduce emissions of DPM and NO_x.

To address the issue of diesel emissions in the state, CARB developed the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*.⁵ In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the Federal on-road and non-road emission standards for new diesel engines, as well as adoption of regulations for ULSD fuel in California.

Truck and Bus Regulation

CARB is actively enforcing heavy-duty diesel vehicle regulations that require fleets to replace or retrofit heavy-duty diesel vehicles, with full implementation of the program scheduled for January 1, 2023. Compliance with the program is generally considered vehicles equipped with a 2010 or newer engine model year. As of January 1, 2020, the DMV cannot register any vehicle that does not meet the requirements of the Truck and Bus Regulation.

Other CARB diesel programs affecting heavy-duty diesel vehicles include:

- Idling limits of no more than 5 minutes with special exceptions.
- Emission Control Labels must be affixed to engines of all commercial heavy-duty diesel vehicles, and must be legible as proof the engine, at minimum, meets U.S. federal emissions standards for the engine model year.
- The Periodic Smoke Inspection Program requires owners of California-based fleets of two or more diesel vehicles to perform annual smoke opacity tests and to keep records for at least two years for each vehicle.
- The Heavy-Duty Vehicle Inspection Program uses random roadside inspections to verify that diesel engines do not smoke excessively and are tamper-free.

⁵ California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.

Off-Road Vehicle and Equipment Regulations

CARB has also adopted and implemented regulations to reduce DPM and nitrogen oxides (NOx) emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NOx exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent Federal off-road equipment engine emission limits for new vehicles, is expected to substantially reduce emissions of DPM and NOx.

Fleet owners must report the vehicle and engine information for all vehicles within their fleets operating in California. Fleet owners must also report owner information. Fleet owners should report using DOORS, which is CARB's online reporting tool. CARB issues a unique Equipment Identification Number (EIN) that is assigned to each vehicle. The fleet owner must label their vehicles with the EIN.

Other CARB diesel programs affecting off-road vehicles and equipment include:

- Idling limits of no more than 5 minutes with special exceptions.
- Portable engines 50 hp or greater may require a permit or registration to legally operate. BAAQMD is responsible for taking enforcement action against individuals who own or operate portable equipment without a registration or permit.

Bay Area Air Quality Management District (BAAQMD)

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County, and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the NAAQS and CAAQS. The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.⁶ The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in

⁶ See BAAQMD: <https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program>.

California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program has been implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses has been used to develop emission reduction activities in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Seven areas have been identified by BAAQMD as impacted communities. They include Eastern San Francisco, Richmond/San Pablo, Western Alameda, San José, Vallejo, Concord, and Pittsburgh/Antioch. The project site is within a BAAQMD CARE area.

Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by OEHHA, as having an overall score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.⁷ The BAAQMD has identified several overburdened areas within the air district's boundaries. However, the project site is not within an overburdened area as identified by BAAQMD as the Project site is scored at the 56th percentile on CalEnviroScreen.⁸

BAAQMD CEQA Air Quality Guidelines

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. In 2023, the BAAQMD revised the *California Environmental Quality Act (CEQA) Air Quality Guidelines* that included the significance thresholds to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The thresholds contained in the CEQA guidance were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The original 2011 thresholds were challenged in court and were mostly upheld.

In 2017, BAAQMD updated its CEQA Air Quality Guidelines and included revised significance thresholds. The 2017 guidelines recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for air toxics, odors, and GHG emissions.

In 2022, BAAQMD revised its CEQA Guidelines and GHG thresholds, eliminating quantified emissions limits for GHG analyses. The current BAAQMD guidelines and thresholds were used in this analysis and are summarized in Table 1.⁹ Air quality and health risks impacts are considered potentially significant if they exceed these thresholds.

⁷ See BAAQMD: https://www.baaqmd.gov/~/_media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofverburdenedcommunities-pdf.pdf?la=en.

⁸ OEHHA, CalEnviroScreen 4.0 Maps

https://experience.arcgis.com/experience/11d2f52282a54cee6184203/page/CalEnviroScreen-4_0/

⁹ Bay Area Air Quality Management District. 2022 *CEQA Guidelines*. April 2023.

Table 1. BAAQMD CEQA Significance Thresholds

Criteria Air Pollutant	Construction Thresholds	
	Average Daily Emissions (lbs./day)	
ROG	54	
NO _x	54	
PM ₁₀	82 (Exhaust)	
PM _{2.5}	54 (Exhaust)	
Fugitive Dust (PM ₁₀ /PM _{2.5})	Best Management Practices (BMPs)*	
CO	None	
Health Risks and Hazards	Single Sources Within 1,000-foot Zone of Influence	Combined Sources (Cumulative from all sources within 1000-foot zone of influence)
Excess Cancer Risk	>10.0 in a million	>100 in a million
Hazard Index	>1.0	>10.0
Incremental annual PM _{2.5}	>0.3 µg/m ³	>0.8 µg/m ³
Note: ROG = reactive organic gases, NO _x = nitrogen oxides, PM ₁₀ = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM _{2.5} = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. * BAAQMD strongly recommends implementing all feasible fugitive dust management practices especially when construction projects are located near sensitive communities, including schools, residential areas, or other sensitive land uses.		

Source: Bay Area Air Quality Management District, 2022

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM₁₀ and PM_{2.5}. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The BAAQMD requires all projects include a “basic” set of best management practices (BMPs) to manage fugitive dust and considers impacts from dust (i.e., fugitive PM₁₀ and PM_{2.5}) to be less-than-significant if BMPs are implemented.

Basic Best Management Practices: Include measures to control dust and exhaust during construction.

During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less-than-significant level. The contractor shall implement the following BMPs that are required of all projects:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.
8. Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.
9. Publicly visible signs shall be posted with the telephone number and name of the person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's General Air Pollution Complaints number shall also be visible to ensure compliance with applicable regulations.

BAAQMD strongly encourages enhanced BMPs for construction sites near schools, residential areas, or other sensitive land uses. Enhanced measures include:

- Limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities.
- Install wind breaks (e.g., trees, fences) on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.
- Plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than one percent.
- Minimize the amount of excavated material or waste materials stored at the site.
- Hydroseed or apply non-toxic soil stabilizers to construction areas, including previously graded areas, that are inactive for at least 10 calendar days.

The measures above are consistent with BAAQMD-recommended basic and enhanced BMPs for reducing fugitive dust contained in the BAAQMD CEQA Air Quality Guidelines. For this analysis, only the basic set of best management practices are required as the unmitigated fugitive dust emissions from project sources were below the BAAQMD single-source threshold.

BAAQMD Rules and Regulations

Combustion equipment associated with the proposed project includes a new diesel engine to power generator that would establish new sources of particulate matter and gaseous emissions. Emissions would primarily result from the non-testing and testing of the emergency backup generator. Certain emission sources would be subject to BAAQMD Regulations and Rules. The District's rules and regulations that may apply to the project include:

- Regulation 2 – Permits
 - Rule 2-1: General Requirements
 - Rule 2-2: New Source Review
 - Rule 2-5: New Source Review of Toxic Air Contaminants
- Regulation 6 – Particulate Matter and Visible Emissions
 - Rule 6-3: Wood-Burning Devices
- Regulation 9 – Inorganic Gaseous Pollutants
 - Rule 9-1: Sulfur Dioxide
 - Rule 9-7: Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, And Process Heaters
 - Rule 9-8: Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines

Permits

Rule 2-1-301 requires that any person installing, modifying, or replacing any equipment, the use of which may reduce or control the emission of air contaminants, shall first obtain an Authority to Construct (ATC).

Rule 2-1-302 requires that written authorization from the BAAQMD in the form of a Permit to Operate (PTO) be secured before any such equipment is used or operated.

Rule 2-1 lists sources that are exempt from permitting.

New Source Review

Rule 2-2, New Source Review (NSR), applies to all new and modified sources or facilities that are subject to the requirements of Rule 2-1-301. The purpose of the rule is to provide for review of such sources and to provide mechanisms by which no net increase in emissions will result.

Rule 2-2-301 requires that an applicant for an ATC or PTO apply Best Available Control Technology (BACT) to any new or modified source that results in an increase in emissions and has emissions of precursor organic compounds, non-precursor organic compounds, NO_x, SO₂, PM₁₀, or CO of 10.0 pounds or more per highest day. Based on the estimated emissions from the proposed project, BACT will be required for NO_x emissions from the diesel-fueled generator engines.

Rule 2-5 applies to new and modified sources of TAC emissions. BAAQMD evaluates the TAC emissions in order to evaluate potential public exposure and health risk, to mitigate potentially significant health risks resulting from these exposures, and to provide net health risk benefits by improving the level of control when existing sources are modified or replaced. Toxics BACT (or TBACT) is applied to any new or modified source of TACs where the source risk is a cancer risk greater than 1.0 in one million and/or a chronic hazard index greater than 0.20. Permits are not issued for any new or modified source that has risks or net project risks that exceed a cancer risk of 10.0 in one million or a chronic or acute hazard index of 1.0.

Stationary Diesel Airborne Toxic Control Measure

The BAAQMD administers the CARB's Airborne Toxic Control Measure (ACTM) for Stationary Diesel engines (section 93115, title 17 CA Code of Regulations). The project's stationary sources will be new stationary emergency standby diesel engines larger than 50 hp. These limits vary based on maximum engine power. All engines are limited to PM emission rates of 0.15 g/hp-hour, regardless of size. This ACTM limits engine operation 50 hours per year for routine testing and maintenance.

Offsets

Rule 2-2-302 require that offsets be provided for a new or modified source that emits more than 10 tons per year of NOx or precursor organic compounds.

Prohibitory Rules

Regulation 6 pertains to particulate matter and visible emissions. Although the engines will be fueled with diesel, they will be modern, low emission engines. Thus, the engines are expected to comply with Regulation 6.

Rule 6-3 applies to emissions from wood-burning devices. Effective November 1, 2016, no person or builder shall install a wood-burning device in a new building construction.

Rule 9-1 applies to sulfur dioxide. The engines will use ultra-low sulfur diesel fuel (less than 15 ppm sulfur) and will not be a significant source of sulfur dioxide emissions and are expected to comply with the requirements of Rule 9-1.

Rule 9-7 limits the emissions of NOx CO from industrial, institutional and commercial boilers, steam generators and process heaters. This regulation typically applies to boilers with a heat rating of 2 million British Thermal Units (BTU) per hour.

Rule 9-8 prescribes NOx and CO emission limits for stationary internal combustion engines. Since the proposed engines will be used with emergency standby generators, Regulation 9-8-110 exempts the engines from the requirements of this Rule, except for the recordkeeping requirements (9-8-530) and limitations on hours of operation for reliability-related operation (maintenance and testing). The engines will not operate more than 50 hours per year, which will satisfy the requirements of 9-8-111.

BACT for Diesel Generator Engines

Since the generator will be used exclusively for emergency use during involuntary loss of power, the BACT levels listed for IC compression engines in the BAAQMD BACT Guidelines would apply. These are provided for two separate size ranges of diesel engines:

I.C. Engine – Compression Ignition >50hp and <1,000hp: BAAQMD applies BACT 2 emission limits based on the ATCM for stationary emergency standby diesel engines larger than 50 brake-horsepower (BHP). NOx emission factor limit is subject to the CARB ACTM that ranges from 3.0 to 3.5 grams per horsepower hour (g/hp-hr). The PM (PM10 or PM2.5) limit is 0.15 g/hp-hr per CARB's ACTM.

I.C. Engine – Compression Ignition <999hp: BAAQMD applies specific BACT emission limits for stationary emergency standby diesel engines equal or larger than 1,000 brake-horsepower (BHP). NOx emission factor limit is subject to the CARB ACTM that ranges from 0.5 g/hp-hr. The PM (PM10 or PM2.5) limit is 0.02 g/hp-hr. POC (i.e., ROG) limits are 0.14 g/hp-hr.

City of Hayward 2040 General Plan

The Hayward 2040 General Plan¹⁰ outlines the long-range policy framework to guide decision-making related to land use, growth and development, safety, and open space conservation through 2040. The Natural Resources Element includes goals, policies, and implementation programs to reduce exposure of the City's sensitive population to exposure of air pollution, toxic air contaminants, and GHG emissions. The following goals, policies, and implementation programs are applicable to the proposed project:

- Goal NR-2: Improve the health and sustainability of the community through continued local efforts to improve regional air quality, reduce greenhouse gas emissions, and reduce community exposure to health risks associated with toxic air contaminants and fine particulate matter.
- NR-2.1: Ambient Air Quality Standards. The City shall work with the California Air Resources Board and the Bay Area Air Quality Management District to meet State and Federal ambient air quality standards in order to protect all residents from the health effects of air pollution.
- NR-2.2: New Development. The City shall review proposed development applications to ensure projects incorporate feasible measures that reduce construction and operational emissions for reactive organic gases (ROG), nitrogen oxides (NOX), and particulate matter (PM₁₀ and PM_{2.5}) through project location and design.

¹⁰ City of Hayward, *Hayward 2040 General Plan Policy Document*, July 2014. Web: https://www.hayward-ca.gov/sites/default/files/documents/General_Plan_FINAL.pdf

- NR-2.3: Emissions Reduction. The City shall require development practices that exceed Bay Area Air Quality Management District reactive organic gas (ROG), nitrogen oxide (NO_x) operational thresholds to incorporate design or operational features that reduce emissions equal to at least 15 percent below the level that would be produced by an unmitigated project.
- NR-2.4: Community Greenhouse Gas Reduction. The City shall work with the community to reduce community-based GHG emissions by 20 percent below 2005 baseline levels by 2020, 30% below 2005 levels by 2025, and 55% below 2005 levels by 2030. In addition, the City shall work with the community to develop a plan that may result in the reduction of community-based GHG emissions to achieve carbon neutrality by 2045.
- NR-2.5: Municipal Greenhouse Gas Reduction. The City shall reduce municipal greenhouse gas emissions by 20 percent below 2005 baseline levels by 2020, 30% below 2005 levels by 2025, and 55% below 2005 levels by 2030. In addition, the City shall develop a plan that may result in the reduction of municipal GHG emissions to achieve carbon neutrality by 2045.
- NR-2.6: Greenhouse Gas Reduction in New Development. The City shall reduce potential greenhouse gas emissions by discouraging new development that is primarily dependent on the private automobile; promoting infill development and/or new development that is compact, mixed-use pedestrian friendly, and transit oriented; promoting energy-efficient building design and site planning; and improving the regional jobs/housing balance ratio.
- NR-2.13: Wood Stove and Fireplace Replacement. The City shall promote the replacement of non-EPA certified fireplaces and woodstoves and encourage city residents to participate in Bay Area Air Quality Management District programs, such as the Wood Stove Rebate Program.
- NR-2.15: Community Risk Reduction Strategy. The City shall maintain and implement the General Plan as Hayward's community risk reduction strategy to reduce health risks associated with toxic air contaminants (TACs) and fine particulate matter (PM_{2.5}) in both existing and new development.
- NR-2.16: Sensitive Uses. The City shall minimize exposure of sensitive receptors to toxic air contaminants (TAC), fine particulate matter (PM_{2.5}), and odors to the extent possible, and consider distance, orientation, and wind direction when siting sensitive land uses in proximity to TAC- and PM_{2.5}-emitting sources and odor sources in order to minimize health risk.
- NR-2.18: Exposure Reduction Measures for New Receptors. The City shall require development projects to implement all applicable best management practices that will reduce exposure of new sensitive receptors (e.g., hospitals, schools,

daycare facilities, elderly housing and convalescent facilities) to odors, toxic air contaminants (TAC) and fine particulate matter (PM_{2.5}).

Health Risk Impacts and Mitigation Measures

Project impacts related to increased health risk can occur either by generating emissions of TACs and air pollutants or by introducing a new sensitive receptor in proximity to an existing source of TACs. This project would be a source of new emissions. Temporary project construction activity would generate emissions of DPM from equipment and trucks and also generate dust on a temporary basis that could affect nearby sensitive receptors. The project would also include a diesel-powered emergency generator and new truck trips, which would produce TAC and air pollutant emissions. A health risk assessment was prepared to address project construction and operational impacts on the surrounding off-site sensitive receptors.

There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of the existing sources of TAC was also assessed in terms of the cumulative risk which includes the project contribution. The project would not introduce new residents that are sensitive receptors who would be exposed to existing sources of TACs and localized air pollutants in the vicinity of the project.

Health risk impacts are addressed by predicting increased lifetime cancer risk, the increase in annual PM_{2.5} concentrations, and computing the Hazard Index (HI) for non-cancer health risks. Construction equipment and associated heavy-duty truck traffic generates diesel exhaust, which is a known TAC. These exhaust emissions pose health risks for sensitive receptors such as surrounding residents. The primary health risk impact issues associated with construction emissions are cancer risk and exposure to PM_{2.5}. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and PM_{2.5}.¹¹ Diesel exhaust (i.e., DPM) poses both a potential health and nuisance impact to nearby receptors. This assessment included dispersion modeling to predict the offsite and onsite concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be evaluated.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2022.1.1 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size, and anticipated construction schedule were input to CalEEMod. The CalEEMod model output along with construction inputs are included in *Attachment 1*.

¹¹ DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

CalEEMod Modeling

Land Use Inputs

The proposed project land uses were entered into CalEEMod as described in Table 2.

Table 2. Summary of Project Land Use Inputs

Project Land Uses	Size	Units	Square Feet	Acreage
Unrefrigerated Warehouse – No Rail	97	1,000-sf	97,646	7.62
General Office Building	5	1,000-sf	5,760	
Parking Lot	115	Parking Spaces	-	

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were provided by the project applicant. The applicant provided estimated demolition, soil, concrete, and asphalt hauling quantities.

The CalEEMod construction equipment worksheet provided by the applicant included the schedule for each phase of construction. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays was provided by the project applicant. Since different equipment would have different estimates of the use per phase, the hours per day for each piece of equipment was computed by dividing the total number of hours that the equipment would be used by the total number of days in that phase. The construction schedule assumed that the earliest possible start date would be May 2025 and would be built out over a period of approximately 10 months, or 237 construction workdays. The earliest year of full operation was assumed to be 2027. Emission rates for construction equipment and traffic are lower in future years as newer equipment with lower emissions rates are introduced into the overall fleet, replacing older equipment with high emission rates.

Construction Truck Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimate of demolition material to be exported, estimate of soil imported and/or exported to the site, and the estimate of concrete and asphalt truck trips to and from the site. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. The total trips for those were computed by multiplying the daily trip rate by the number of days in that phase. Daily haul trips for demolition and grading were developed by CalEEMod using the provided demolition and grading volumes. The number of concrete and asphalt total round haul trips were provided for the project and converted to daily one-way trips, assuming two trips per delivery. These values are shown in the project construction equipment worksheets included in *Attachment 1*.

Summary of Computed Construction Period Emissions

Since project construction would occur for less than one year, average daily emissions were computed by dividing the total construction emissions by the number of construction days (237 workdays). Table 3 shows average daily construction emissions of ROG, NO_x, PM₁₀ exhaust, and PM_{2.5} exhaust during construction of the project. As indicated in Table 3, the predicted construction period emissions would not exceed the BAAQMD significance thresholds.

Table 3. Construction Period Emissions

Year	ROG	NO_x	PM₁₀ Exhaust	PM_{2.5} Exhaust
<i>Construction Emissions Per Year (Tons)</i>				
2025-2026	0.58	0.61	0.02	0.02
<i>Average Daily Construction Emissions Per Year (pounds/day)</i>				
2025-2026 (237 construction workdays)	4.93	5.13	0.15	0.14
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day	54 lbs./day	82 lbs./day	54 lbs./day
Exceed Threshold?	No	No	No	No

Health Risk Methodology

Health risk impacts were addressed by predicting increased cancer risk, the increase in annual PM_{2.5} concentrations and computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risk from construction and operation sources. These sources include on-site construction activity, construction truck hauling, project generator, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure period was used, per BAAQMD guidance.¹²

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contribution. Unlike the increased maximum cancer risk, the annual PM_{2.5} concentration, and HI values are not additive but based on an annual maximum risk for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing health risks impacts is contained in Appendix E of the BAAQMD CEQA Guidelines. TAC and PM_{2.5} emissions are calculated, a dispersion model used to estimate ambient pollutant concentrations, and cancer risks and HI calculated using DPM concentrations.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes the nearby existing residences to the north, east, and west of the project site as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions.

¹² BAAQMD, 2022. Appendix E of the *BAAQMD CEQA Guidelines*. April 2023.

Health Risk from Project Construction

The primary health risk impact issues associated with construction projects are cancer risks associated with diesel exhaust (i.e., DPM), which is a known TAC, and exposure to high ambient concentrations of dust (i.e., PM_{2.5}). DPM poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and PM_{2.5}.¹³ This assessment included dispersion modeling to predict the offsite concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be estimated.

Construction Emissions

The CalEEMod model provided total uncontrolled annual PM₁₀ exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles. The on-road emissions are a result of haul truck travel during demolition and grading activities, worker travel, and vendor deliveries during construction. A trip length of a half-mile was used to represent vehicle travel while at or near the construction site. Total uncontrolled DPM emissions from on-site construction activities were estimated to be 0.01 tons (26 pounds). Uncontrolled fugitive dust (PM_{2.5}) emissions were estimated to be 0.01 tons (24 pounds) for the project.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and PM_{2.5} concentrations at sensitive receptors (i.e., residences) in the vicinity of the project construction area. The AERMOD dispersion model is an EPA approved dispersion model and a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.¹⁴ Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive PM_{2.5} dust emissions.

Construction Sources

To represent the construction equipment exhaust emissions, an area source representative of the construction area with emission release height of 20 feet (6 meters) was used for the area sources.¹⁵ The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would be for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction

¹³ DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

¹⁴ BAAQMD, 2020, *BAAQMD Health Risk Assessment Modeling Protocol*. December. Web:

https://www.baaqmd.gov/~media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd_hra_modeling_protocol.pdf?la=en

¹⁵ California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: <https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm>

equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe. Emissions from vehicle travel on- and off-site were distributed among the exhaust emission area sources throughout the site.

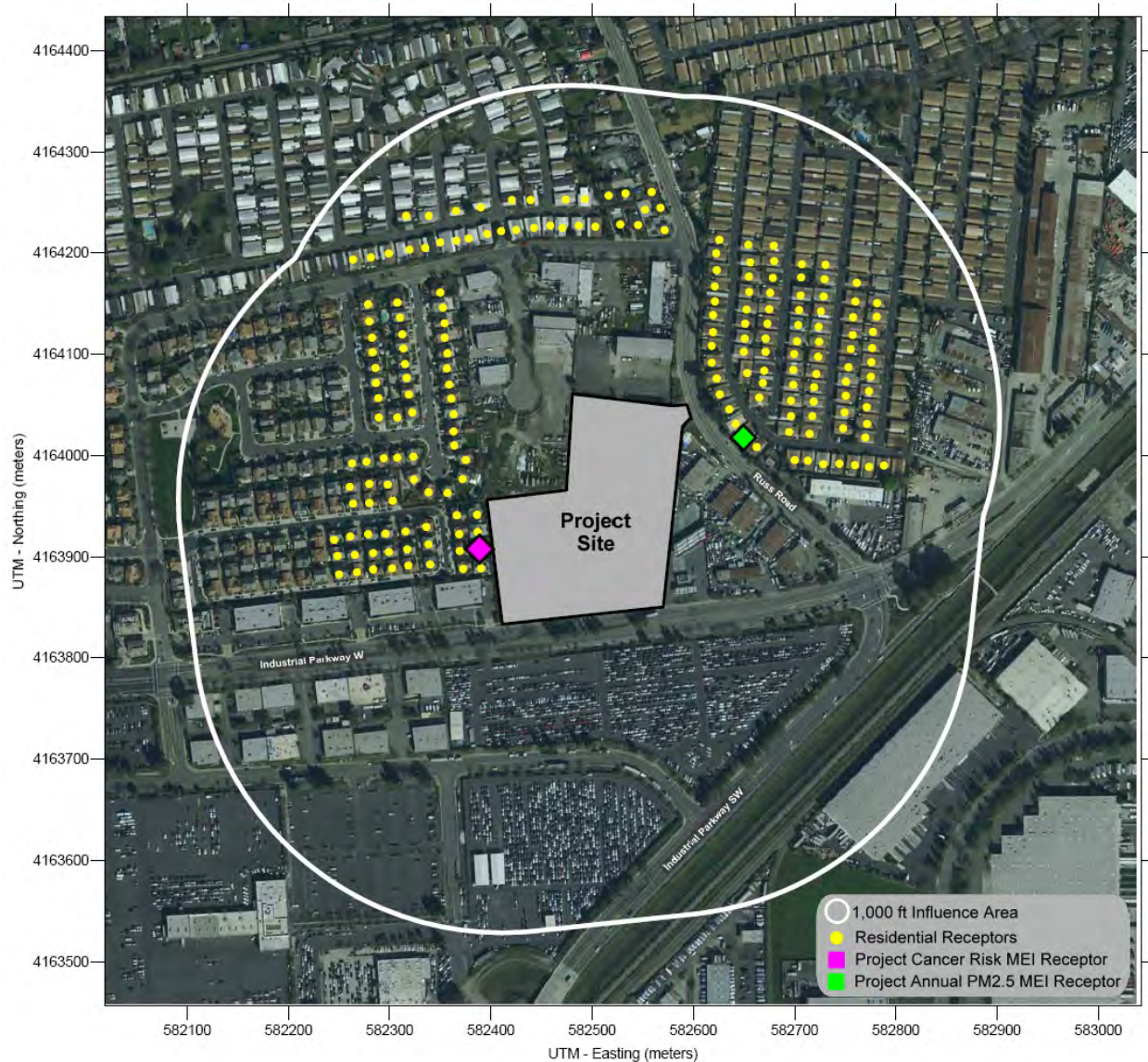
For modeling fugitive PM_{2.5} emissions, a similar area source but with a near-ground level release height of 7 feet (2 meters) was modeled. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and leaves the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources. Figure 1 shows the project construction site and receptors.

AERMOD Inputs and Meteorological Data

The modeling used a five-year data set (2013 - 2017) of hourly meteorological data from the Hayward Executive Airport prepared for use with the AERMOD model by BAAQMD. Construction emissions were modeled as occurring Monday through Friday between 7:00 a.m. to 7:00 p.m., per the project applicant's construction schedule. Annual DPM and PM_{2.5} concentrations from construction activities during the 10-month period in 2025 and 2026 were calculated using the model. DPM and PM_{2.5} concentrations were calculated at nearby sensitive receptors. Receptor heights of 5 feet (1.5 meters) were used to represent the breathing height on the first floor of nearby single-family residences.¹⁶

¹⁶ Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

Figure 1. Locations of the Construction Site, Off-Site Sensitive Receptors, and Maximum TAC Impact



Health Risk from Project Operation

Operation of the project would have long-term emissions from mobile sources (i.e., truck trips) and stationary sources (i.e., diesel generator). While these emissions would not be as intensive at or near the site as construction activity, they would contribute to long-term effects to sensitive receptors. The project expects to have approximately three electric powered forklifts and three forklift chargers used during all hours of operation. Since the forklifts would not be diesel powered and therefore not emit substantial TACs, a health risk analysis of the forklifts was not conducted.

Project Stand-By Diesel Generator

The project proposes to include one stand-by emergency diesel generator located within a pump room to power the building in the event of a power failure. The standby generator will be up to 76-kW powered by a 102-hp engine. The generator would be tested periodically and power the system in the event of a power failure. For modeling purposes, it was assumed that the generators would be operated for testing and maintenance purposes as well as non-testing purposes per BAAQMD's newest Guidelines. CARB and BAAQMD requirements limit these engine operations to 50 hours each per year for testing and maintenance, and new BAAQMD Guidelines recommend including 100 hours each year for non-testing and non-maintenance operations. During testing periods, the engine would typically be run for less than one hour. The engine would be required to meet CARB and EPA emission standards and consume commercially available California low-sulfur diesel fuel. Additionally, the generator would have to meet BAAQMD BACT requirements for IC Engine-Compression Ignition: Stationary Emergency, non-Agricultural, non-direct drive fire pump sources. The emissions from the operation of the generator were calculated using BAAQMD's Permit Handbook methodologies per BAAQMD's newest Guidelines.

The diesel engine would be subject to CARB's Stationary Diesel Airborne Toxics Control Measure (ATCM) and require permits from the BAAQMD, since it will be equipped with an engine larger than 50-HP. BACT requirements would apply to the generator that would limit DPM emissions. As part of the BAAQMD permit requirements for toxics screening analysis, the engine emissions will have to meet Best Available Control Technology for Toxics (BACT) and pass the toxic risk screening level of less than ten in a million. The risk assessment would be prepared by BAAQMD. Depending on results, BAAQMD would set limits for DPM emissions (e.g., more restricted engine operation periods). Sources of air pollutant emissions complying with all applicable BAAQMD regulations generally will not be considered to have a significant air quality health risk impact.

To obtain an estimate of potential cancer risks and PM_{2.5} impacts from operation of the emergency generator, the U.S. EPA AERMOD dispersion model was used to calculate the maximum annual DPM concentration at off-site sensitive receptor locations (nearby residences). The same receptors and breathing heights used in the construction dispersion modeling were used for the generator model. Additionally, the same BAAQMD Hayward Executive Airport meteorological data was used. Stack parameters (stack height, exhaust flow rate, and exhaust gas temperature) for modeling the generator were based on BAAQMD default parameters for emergency generators.¹⁷ Annual average DPM and PM_{2.5} concentrations were modeled assuming that generator operation could occur at any time of the day (24 hours per day, 365 days per year).

Operational Truck Traffic Emissions

The project traffic study estimates that there would be 233 daily truck trips generated from operating the proposed project.¹⁸ These truck trips are assumed to be heavy-duty diesel-powered trucks and a source of long-term DPM emissions. These trucks would travel to and from the site and are anticipated to idle at loading dock for 5 minutes for each trip.

¹⁷ Bay Area Air Quality Management District, 2022 CEQA Guidelines, April 2023.

¹⁸ Hexagon Transportation Consultants. 2023. *Memorandum: Assumptions Memorandum for LTA for the Proposed CenterPoint Warehouse Development in Hayward, California (Planning Application #202206056)*. March 3.

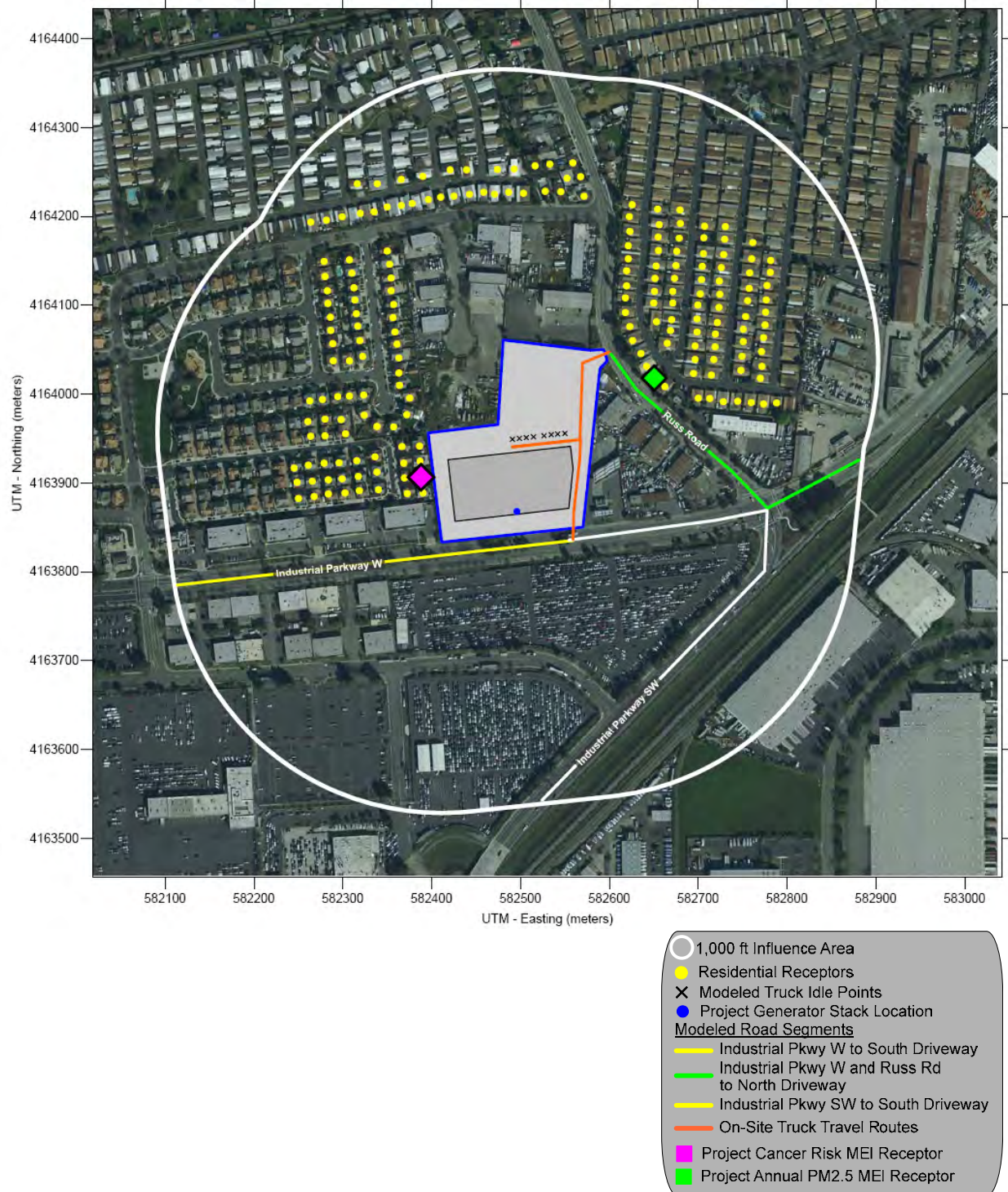
DPM and PM_{2.5} emissions were calculated assuming they would operate year-round, 24 hours per day. Emissions of DPM (assumed to be PM₁₀ exhaust) from these activities were computed using the CARB EMFAC2021 model assuming trucks would travel along on Russ Road at an average speed of 20 mph, Industrial Parkway West at 40 mph and Industrial Parkway Southwest at 30 mph, 5 mph below the posted speed limits to account for roadway congestion. While on-site, the trucks were assumed to travel at a speed of 5 miles per hour and each truck would idle at the warehouse site for 5 minutes per trip. Idling emissions were computed based on EMFAC2021 emission rates for 5-mph travel and converted to hourly emissions. Fugitive PM_{2.5} emissions from truck travel would occur due to tire and brake wear and from road dust generated by the trucks. The fugitive PM_{2.5} emissions were computed using the Caltrans CT-EMFAC2021 model.

Dispersion Modeling

To estimate potential increased cancer risks and PM_{2.5} impacts from project truck traffic, the AERMOD dispersion model was used to calculate the maximum annual DPM concentration at nearby sensitive receptors (i.e., residences). The same receptors, breathing heights, and BAAQMD Hayward Executive Airport meteorological data used in the previous dispersion modeling were used for the truck traffic modeling. The project truck travel and idle emissions were modeled year-round, 24 hours per day. Operation with truck traffic was assumed to begin in 2027. Line-volume sources were used for the on- and off-site truck travel and 8 point sources were used for modeling the idle emissions while at the loading docks. Building downwash was used in modeling the idle emissions. Truck idling emission source parameters were based on San Joaquin Valley Air Pollution Control District (SJVAPCD) information for these types of sources.¹⁹ Figure 2 shows the project site, truck travel routes modeled, and truck idle locations.

¹⁹ SJVAPCD, Guidance for Air Dispersion Modeling, Draft 01/07 Rev 2.0.

Figure 2. Locations of Project Site, Project Generator and Truck Road Segments, Off-Site Sensitive Receptors, and Maximum TAC Impact (Project MEI)



Health Risks of all Project TAC Sources at Project MEIs

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with BAAQMD CEQA guidance for age-sensitivity factors and exposure parameters. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

Non-cancer health hazards and maximum PM_{2.5} concentrations were also calculated and identified. The maximum modeled annual PM_{2.5} concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI values was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation DPM reference exposure level of 5 µg/m³.

The modeled maximum annual DPM and PM_{2.5} concentrations were identified at nearby sensitive receptors (as shown in Figures 1 and 2) to find the MEIs. The total project health risk impacts are from the combination of construction and operation sources. These sources include on-site construction activity as well as stand-by generator use and truck traffic generated during operation of the project. The maximum project cancer risk impact is computed by adding the construction cancer risk for an infant/child (1 year exposure duration) to the increased cancer risk for the project operational conditions from the generator and truck traffic (29 years exposure duration) at the MEIs. Residential sensitive receptors were assumed to be present near the site for up to 30 years. The cancer risks from construction and operation of the project were summed together. Unlike, the increased maximum cancer risk, the annual PM_{2.5} concentration and HI risks are not cumulative but based on an annual maximum risk for the entirety of the project.

Results of this assessment indicated that the cancer risk and annual PM_{2.5} concentration MEIs most affected by project construction and operation were at two different locations. The cancer risk MEI was located on the first floor (5 feet above ground) of the single-family residence to the west and the annual PM_{2.5} concentration MEI was located at another residence to the east of the project. The location of the MEIs and nearby sensitive receptors are shown in Figure 1. Table 4 lists the health risks from the project at the location of the residential MEIs.

The maximum cancer risks, annual PM_{2.5} concentration and non-cancer hazards at the MEIs from the project (construction and operation activities) would be below the single-source significance thresholds. *Attachment 2* to this report includes the emission calculations used for the construction and truck traffic modeling and the cancer risk calculations.

Table 4. Project Health Risk Impacts at the Off-Site MEIs

Source	Cancer Risk* (per million)	Annual PM _{2.5} * (µg/m ³)	Hazard Index
Project Construction (Years 0-1) Unmitigated	1.12 (infant)	0.02	<0.01
Project Operation, Generator (Years 1-30)	0.44(infant)	<0.01	<0.01
Project Operation. Traffic (Years 1-30)	2.74 (infant)	<0.01	<0.01
Total/Maximum Project Impact (Years 0-30)	4.30	0.02	<0.01
BAAQMD Recommended Threshold	10	0.3	1.0
Exceed Threshold?	No	No	No

*Maximum cancer risk and PM_{2.5} concentration occur at different locations.

Cumulative Health Risks of all TAC Sources at the Off-Site Project MEI

Cumulative health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors that are located within 1,000 feet of a project site (i.e., influence area). These sources include rail lines, highways, busy surface streets, and stationary sources identified by BAAQMD.

A review of the project area indicated that one roadway within the influence area, Industrial Parkway West/Southwest, could have traffic exceeding 10,000 vehicles per day. Other nearby streets would have less than 10,000 vehicles per day. A review of BAAQMD's stationary source geographic information systems (GIS) map tool identified 13 stationary sources within the influence area. Figure 3 shows the project area, TAC sources within the influence area, and the location of the MEIs. Details of the modeling and health risk calculations are included in *Attachment 3*.

Figure 3. Project Site and Nearby TAC and PM_{2.5} Sources



Highway & Local Roadways - Industrial Parkway West/Southwest

The project site is located near the Industrial Parkway West/Southwest (see Figure 3). Cancer risk, PM_{2.5} concentrations, and HI associated with traffic on Industrial Parkway West/Southwest was estimated using BAAQMD screening values provided via GIS data files (i.e., raster files). BAAQMD raster files provide screening-level cancer risk, PM_{2.5} concentrations, and HI for roadways within the Bay Area and were produced using AERMOD and 20x20-meter emissions grid. The raster file uses EMFAC2021 data for vehicle emissions and fleet mix and includes Appendix E of the Air District's CEQA Air Quality Guidance for risk assessment assumptions.

Screening-level cancer risk, PM_{2.5} concentration, and HI at the project MEIs were identified using GIS software and are listed in Table 5. At the MEIs, the increased cancer risk from the roadway would be 12.72 per million, the PM_{2.5} concentration from the roadway would be less than 0.30 µg/m³, and the HI from the roadway would be 0.04. Note that these values are not adjusted for age sensitivity or exposure duration and are considered higher than values that would be obtained with refined modeling methods.

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2021* GIS website,²⁰ which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for new OEHHA guidance. Thirteen sources were identified using this tool; 11 generic sources (automotive body, paint, and interior repair and maintenance), a generator, and a gas dispensing facility. A stationary source information request was submitted to BAAQMD in order to estimate health risk impacts from the gasoline dispensing facility.²¹ The BAAQMD GIS website provided screening risks and hazards for the generic sources and generator.

The screening level risks and hazards provided by BAAQMD for this source were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for a Generic Source, Gasoline Dispensing Facility, and Diesel Internal Combustion Engine*. Health risk impacts from stationary sources upon the MEI are reported in Table 5.

Summary of Cumulative Health Risk Impact at Off-Site MEIs

Table 5 reports both the project and cumulative health risk impacts at the project MEIs. The health risks from project activities (construction and operation) would not exceed the maximum increased cancer risk, annual PM_{2.5} concentration, and HI values for single-source or cumulative source thresholds.

²⁰ BAAQMD,

<https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3>

²¹ Correspondence with BAAQMD CEQA, May 1, 2023.

Table 5. Impacts from Combined Sources at Off-Site MEIs

Source	Cancer Risk* (per million)	Annual PM _{2.5} * (µg/m ³)	Hazard Index
Project Impacts			
Total/Maximum Project Impact	4.30	0.02	<0.01
BAAQMD Recommended Threshold	10	0.3	1.0
Exceed Threshold?	No	No	No
Cumulative Sources			
Industrial Parkway West, BAAQMD Raster Screening Tool	12.72	0.30	0.04
ASM Autobody & Repair (Facility ID #9764, Auto Body), MEIs at 880/280 feet	-	-	<0.01
Universal Auto Body & Repair (Facility ID #11366, Auto Body), MEIs at 760/400 feet	-	-	-
AAA Auto Repair Body & Paint (Facility ID #15575, Auto Body), MEIs at +1,000/570 feet	0.03	-	-
R F Autobody (Facility ID #19020, Auto Body), MEIs at 800/175 feet	0.01	-	-
Bay Area Auto Body & Repair (Facility ID #19196, Auto Body), MEIs at 880/280 feet	-	-	-
V V Collision Center (Facility ID #19304, Auto Body), MEIs at 900/450 feet	0.02	-	-
Alameda County Public Works Agency (Facility ID #19778, Generator), MEIs at 950/100 feet	1.41	0.03	<0.01
Aya Auto Body Repair (Facility ID #22112, Auto Body), MEIs at 950/380 feet	-	-	-
Destiny Auto Collision (Facility ID #22625, Auto Body), MEIs at 750/130 feet	-	-	-
Auto Collision Experts (Facility ID #24480, Auto Body), MEIs at 840/640 feet	0.51	-	<0.01
Bay Area Holdener Petroleum Co (Facility ID #105507, Gasoline Dispensing Facility), MEIs at 630/300 feet	0.66	-	0.10
BG Autobody & Paint (Facility ID #200282, Auto Body), MEIs at 750/130 feet	0.02	-	-
Popeye Auto Collision #2 (Facility ID #200328, Auto Body), MEIs at 675/120 feet	-	-	-
Combined Sources	19.68	0.35	<0.18
BAAQMD Cumulative Source Threshold	100	0.8	10.0
Exceed Threshold?	No	No	No

*Maximum cancer risk and PM_{2.5} concentration occur at different locations.

Supporting Documentation

Attachment 1 includes the CalEEMod output for project construction and operational criteria air pollutant. Also included are any modeling assumptions.

Attachment 2 is the health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction and operation. The AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 3 includes the cumulative health risk calculations from existing sources affecting the project MEIs.

Attachment 1: CalEEMod Modeling Inputs and Outputs

Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2025-2026	0.58	0.61	0.02	0.02	0.04	285.37	
	Total Construction Emissions						
Tons	0.58	0.61	0.02	0.02		285.37	
Pounds/Workdays	Average Daily Emissions					Workdays	
2025-2026	4.93	5.13	0.15	0.14			237
Threshold - lbs/day	54.0	54.0	82.0	54.0			
	Total Construction Emissions						
Pounds	4.93	5.13	0.15	0.14		0.00	
Average	4.93	5.13	0.15	0.14		0.00	237.00
Threshold - lbs/day	54.0	54.0	82.0	54.0			

Operational Criteria Air Pollutants				
Unmitigated	ROG	NOX	Total PM10	Total PM2.5
Year	Tons			
Total	0.70	0.24	0.21	0.04
Truck Trips	0.06	3.51	0.46	0.15
Generator	0.02	0.05	0.003	0.003
	Net Annual Operational Emissions			
Tons/year	0.77	3.80	0.68	0.19
Threshold - Tons/year	10.0	10.0	15.0	10.0
	Average Daily Emissions			
Pounds Per Day	4.24	20.81	3.71	1.03
Threshold - lbs/day	54.0	54.0	82.0	54.0
CO2e				
Category	Project	Truck Trips	Project 2030	Existing
Mobile	517.43	2726.65		
Area	0.00	0.00		
Energy	120.59	120.59		
Water	28.44	28.44		
Waste	29.92	0.00		
Refrig.	0.00			
TOTAL	696.38	2875.69	0.00	0.00
Net GHG Emissions		3572.07		0.00

Number of Days Per Year				
2025	5/1/2025	12/31/25	245	176
2026	1/1/26	3/27/26	86	62
			331	237 Total Workdays

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	5/1/2025	6/30/2025	5	43
Grading	7/2/2025	7/29/2025	5	20
Building Construction	8/26/2025	12/11/2025	5	78
Paving	3/2/2026	3/27/2026	5	20
Architectural Coating	12/2/2025	2/28/2026	5	64
Trenching	8/2/2025	8/22/2025	5	15

Air Quality/Noise Construction Information Data Request

Project Name: Centerpoint Industrial Project Initial Study

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size	N/A	Dwelling Units	7.62 acre	total project acres disturbed
	N/A	s.f. residential		
	N/A	s.f. retail		
	Up to 5,760 s.f. office (w/ potential mez)			
	97,646 s.f. warehouse			
	N/A	s.f. parking garage	N/A	spaces
	TBD	s.f. parking lot	115 auto, 57 trailer	spaces
Construction Days	Monday	to	Friday	
Construction Hours	7:00 am to		7:00 pm	

Pile Driving? No.

Project include on-site GENERATOR OR FIRE PUMP during project **OPERATION** (not construction)? Y/N? __Yes__
IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: 102 horsepower (estimate)

Fuel Type: Diesel. 140 gal tank (estimate)

Location in project (Plans Desired if Available):

See keynote 21 in site plan.

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Demolition	Start Date:	5/1/2025	Total phase:	43			Overall Import/Export Volumes
		End Date:	7/1/2025					
1	Concrete/Industrial Saws	81	0.73	4	20	1.9	4730	Demolition Volume
2	Excavators	158	0.38	8	15	2.8	14410	Square footage of buildings to be demolished
2	Rubber-Tired Dozers	247	0.4	8	15	2.8	23712	(or total tons to be hauled)
	Tractors/Loaders/Backhoes	97	0.37			0	0	60,390 square feet of
	Other Equipment?							2 Hauling volume (tons)
								Any pavement demolished and hauled? 2,400 cy (Concrete)
	Site Preparation	Start Date:		Total phase:				
		End Date:						
	Graders	187	0.41			#DIV/0!	0	
	Rubber Tired Dozers	247	0.4			#DIV/0!	0	
	Tractors/Loaders/Backhoes	97	0.37			#DIV/0!	0	
	Other Equipment?							
	Grading / Excavation	Start Date:	7/2/2025	Total phase:	20			Soil Hauling Volume
		End Date:	8/1/2025					
1	Excavators	158	0.38	8	5	2	2402	Export volume = 13,887 cubic yards
1	Graders	187	0.41	8	5	2	3067	Import volume = 14,700 cubic yards
1	Rubber Tired Dozers	247	0.4	8	5	2	3952	Soil Remediation Hauling Assumption (Additional 1,000 CY exported to Kettleman City Landfill)
	Concrete/Industrial Saws	81	0.73			0	0	Export volume = 14,887 cubic yards
2	Tractors/Loaders/Backhoes	97	0.37	4	5	1	1436	Import volume = 15,700 cubic yards
	Other Equipment?							
	Trenching/Foundation	Start Date:	8/2/2025	Total phase:	15			
		End Date:	8/23/2025					
1	Tractor/Loader/Backhoe	97	0.37	8	15	8	4307	
	Excavators	158	0.38			0	0	
	Other Equipment?							
	Building - Exterior	Start Date:	8/26/2025	Total phase:	78			Cement Trucks? 140 Total Round-Trips
		End Date:	12/1/2025					
1	Cranes	231	0.29	8	10	1.03	5359	Electric? (Y/N) N Otherwise assumed diesel
2	Forklifts	89	0.2	8	10	1.03	2848	Liquid Propane (LPG)? (Y/N) Y Otherwise Assumed diesel
	Generator Sets	84	0.74			0	0	Or temporary line power? (Y/N)
3	Tractors/Loaders/Backhoes	97	0.37	4	20	1.03	8614	
1	Welders	46	0.45	8	10	1.03	1656	
	Other Equipment?							
	Building - Interior/Architectural Coating	Start Date:	12/2/2025	Total phase:	64			
		End Date:	3/1/2026					
1	Air Compressors	78	0.48	6	64	6	14377	
?	Aerial Lift	62	0.31			0	#VALUE!	
	Other Equipment?							
	Paving	Start Date:	3/2/2026	Total phase:	20			
		Start Date:	4/1/2026					
	Cement and Mortar Mixers	9	0.56			0	0	
2	Pavers	130	0.42	8	12	4.8	10483	Asphalt? 2,250 cubic yards
2	Paving Equipment	132	0.36	8	12	4.8	9124	
2	Rollers	80	0.38	8	12	4.8	5837	
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Other Equipment?							
	Additional Phases	Start Date:		Total phase:				
		Start Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs
It is assumed that water trucks would be used during grading
Add or subtract phases and equipment, as appropriate
Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

Traffic Consultant Trip Gen						CalEEMod Default		
Land Use		Size	Daily Trips	New Trips	Weekday Trip Gen	Weekday	Sat	Sun
Office	ksf	5.76	62.4	62.4	10.84	9.74	2.21	0.7
						Rev	2.46	0.78
Warehouse	ksf	97.646	396	396	4.06	1.74	1.74	1.74
Passenger Vehicles	63%		396			Rev	4.06	4.06
Trucks modeled seperately								
Truck	37%		233					

Table 2
Trip Generation Estimates

Proposed Uses	ITE Land Use Code	Size	Daily		AM Peak Hour						Midday Peak Hour						PM Peak Hour					
			Rate	Trip	Rate	Split		Trip		Total	Rate	Split		Trip		Total	Rate	Split		Trip		Total
						In	Out	In	Out			In	Out	In	Out			In	Out	In	Out	
General Office Building ¹	710	5,760 Square Feet	10.84	62	1.52	88%	12%	8	1	9	1.04	50%	50%	3	3	6	1.44	17%	83%	1	7	8
High-Cube Fulfillment Center Warehouse (Sort) ²	155	97,646 Square Feet	6.44	629	0.87	81%	19%	69	16	85	0.40	77%	23%	30	9	39	1.20	39%	61%	46	71	117
Truck Trip Generation ³			37%	233	37%			26	6	32	37%			11	3	14	36%			17	25	42
Passenger Vehicles			63%	396	63%			43	10	53	63%			19	6	25	64%			29	46	75
Total Project Trips				691				77	17	94				33	12	45				47	78	125
Total Project Trips (PCE) ⁴				1,093				122	27	149				52	17	69				76	121	197

Notes:
¹ Land Use Code 710: General Office Building (average rates expressed in trips per 1,000 s.f.).
² Land Use Code 155: High-Cube Fulfillment Center Warehouse (average rates expressed in trips per 1,000 s.f.). Midday peak hour rates were not available for High-Cube Fulfillment Center Warehouse in ITE Trip Generation Manual. Therefore, High-Cube Transload and Short-Term Storage Warehouse (LU 154) rates were used for midday peak hour.
³ Weighted Average percentage for Truck Trips taken from the *Fontana Truck Trip Generation Study, August 2003*. Daily and Midday trip rates are the average of AM and PM peak hour trip rates.
⁴ Vehicle Mix taken from the *Fontana Truck Trip Generation Study, August 2003*. Passenger Car Equivalent (PCE) taken from the *Fontana TIA Guidelines, October 2020*.

Table 2 (continued)
Trip Generation Estimates

Proposed Uses	ITE Land Use Code	Size	Daily		AM Peak Hour						Midday Peak Hour						PM Peak Hour					
			Rate	Trip	Rate	Split		Trip		Total	Rate	Split		Trip		Total	Rate	Split		Trip		Total
						In	Out	In	Out			In	Out	In	Out			In	Out	In	Out	
General Office Building ¹	710	5,760 Square Feet	10.84	62	1.52	88%	12%	8	1	9	1.04	50%	50%	3	3	6	1.44	17%	83%	1	7	8
General Light Industrial ²	110	97,646 Square Feet	4.87	476	0.74	88%	12%	63	9	72	0.48	45%	55%	21	26	47	0.65	14%	86%	9	54	63
Truck Trip Generation ³			37%	176	37%			23	3	26	37%			8	10	18	36%			3	20	23
Passenger Vehicles			63%	300	63%			40	6	46	63%			13	16	29	64%			6	34	40
Total Project Trips				538				71	10	81				24	29	53				10	61	71
Total Project Trips (PCE) ⁴				842				111	15	126				38	46	84				15	96	111

Notes:
¹ Land Use Code 710: General Office Building (average rates expressed in trips per 1,000 s.f.).
² Land Use Code 110: General Light Industrial (average rates expressed in trips per 1,000 s.f.).
³ Weighted Average percentage for Truck Trips taken from the *Fontana Truck Trip Generation Study, August 2003*. Daily and Midday trip rates are the average of AM and PM peak hour trip rates.
⁴ Vehicle Mix taken from the *Fontana Truck Trip Generation Study, August 2003*. Passenger Car Equivalent (PCE) taken from the *Fontana TIA Guidelines, October 2020*.

EMISSION CALCULATIONS	
Operating Hours Per Year (hr/yr)	150

From Manufacturer's Data

Fuel Consumption Rate (gal/hr)	65
Brake Horsepower of Engine (HP)	102

Calc MMBTU/hr = 8.91E+00

From CARB/EPA Certified Data	Emission Factor	Emission Factor	Annual	Annual	Max. Daily	Avg Daily
Pollutant	(g/kw-hr)	(g/hp-hr)	Emissions (lb/yr)	Emissions (TPY)	(lb/day)	(lb/day)
ROG		1.02	34.36	0.02	5.50	0.09
NOx		2.85	96.05	0.05	15.37	0.26
PM10		0.15	5.06	0.003	0.81	0.01
PM2.5		0.15	5.06	0.003	0.81	0.01

	Emission Factor	Annual Emissions	Annual	Max. Daily
	(lb/MMBTU)	(lb/yr)	Emissions (TPY)	(lb/day)
SO2*	0.001515	2.02	0.001	0.32

Note: * From Table 3.4-1 of AP-42

23-031 Centerpoint Industrial, Hayward Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	23-031 Centerpoint Industrial, Hayward
Construction Start Date	5/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	30.0
Location	29469 Ruus Rd, Hayward, CA 94544, USA
County	Alameda
City	Hayward
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1600
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.12

1.2. Land Use Types

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

Unrefrigerated Warehouse-No Rail	97.0	1000sqft	7.62	97,646	0.00	0.00	—	—
General Office Building	5.00	1000sqft	0.00	5,760	0.00	0.00	—	—
Parking Lot	115	Space	0.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	19.8	0.41	13.2	13.6	0.40	3.53	3.93	30.3	14,853
Mit.	0.42	18.3	0.27	13.2	13.4	0.27	3.53	3.80	30.3	14,853
% Reduced	52%	8%	34%	—	1%	32%	—	3%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	17.3	6.66	0.23	2.41	2.50	0.20	0.60	0.76	0.12	2,978
Mit.	17.1	6.71	0.09	2.41	2.46	0.07	0.60	0.65	0.12	2,978
% Reduced	1%	-1%	62%	—	1%	64%	—	14%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	2.87	0.08	1.60	1.68	0.08	0.40	0.47	1.29	1,537

Mit.	1.96	2.33	0.03	1.60	1.64	0.03	0.40	0.43	1.29	1,537
% Reduced	1%	19%	59%	—	3%	57%	—	9%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.52	0.01	0.29	0.31	0.01	0.07	0.09	0.21	254
Mit.	0.36	0.43	0.01	0.29	0.30	0.01	0.07	0.08	0.21	254
% Reduced	1%	19%	59%	—	3%	57%	—	9%	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.87	19.8	0.41	13.2	13.6	0.40	3.53	3.93	30.3	14,853
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	17.3	3.21	0.09	2.41	2.50	0.08	0.60	0.68	0.09	1,596
2026	17.0	6.66	0.23	2.20	2.43	0.20	0.56	0.76	0.12	2,978
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	1.21	2.87	0.08	1.60	1.68	0.08	0.40	0.47	1.29	1,537
2026	1.99	0.46	0.02	0.15	0.17	0.01	0.04	0.05	0.12	187
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.22	0.52	0.01	0.29	0.31	0.01	0.07	0.09	0.21	254
2026	0.36	0.08	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.02	30.9

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
------	-----	-----	-------	-------	-------	--------	--------	--------	---	------

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.42	18.3	0.27	13.2	13.4	0.27	3.53	3.80	30.3	14,853
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	17.1	3.27	0.05	2.41	2.46	0.05	0.60	0.65	0.09	1,596
2026	16.9	6.71	0.09	2.20	2.29	0.07	0.56	0.63	0.12	2,978
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	1.09	2.33	0.03	1.60	1.64	0.03	0.40	0.43	1.29	1,537
2026	1.96	0.49	0.01	0.15	0.16	0.01	0.04	0.05	0.12	187
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.20	0.43	0.01	0.29	0.30	0.01	0.07	0.08	0.21	254
2026	0.36	0.09	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.02	30.9

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.96	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	4,477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.91	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.29	4,282
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.85	1.29	0.02	1.15	1.17	0.02	0.20	0.22	4.50	4,206
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	696

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	3,396
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01
Total	3.96	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	4,477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.40	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.28	3,201
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01
Total	3.91	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.29	4,282
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	1.29	0.02	1.15	1.17	0.02	0.20	0.22	4.48	3,125
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01

Total	3.85	1.29	0.02	1.15	1.17	0.02	0.20	0.22	4.50	4,206
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	517
Area	0.46	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	121
Water	—	—	—	—	—	—	—	—	—	28.4
Waste	—	—	—	—	—	—	—	—	—	29.9
Refrig.	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.70	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	696

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	3,396
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01
Total	3.96	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	4,477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.40	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.28	3,201
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172

Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01
Total	3.91	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.29	4,282
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	1.29	0.02	1.15	1.17	0.02	0.20	0.22	4.48	3,125
Area	2.51	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	181
Refrig.	—	—	—	—	—	—	—	—	0.01	0.01
Total	3.85	1.29	0.02	1.15	1.17	0.02	0.20	0.22	4.50	4,206
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	517
Area	0.46	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	121
Water	—	—	—	—	—	—	—	—	—	28.4
Waste	—	—	—	—	—	—	—	—	—	29.9
Refrig.	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.70	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	696

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.30	0.31	—	0.31	0.28	—	0.28	—	1,126
Demolition	—	—	—	1.43	1.43	—	0.22	0.22	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.86	0.04	—	0.04	0.03	—	0.03	—	133
Demolition	—	—	—	0.17	0.17	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.01	—	0.01	0.01	—	0.01	—	22.0
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.43	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.51	0.04	1.85	1.89	0.04	0.48	0.51	4.60	2,180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.31	< 0.005	0.21	0.22	< 0.005	0.06	0.06	0.23	257

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.04	42.5

3.2. Demolition (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	3.57	0.05	—	0.05	0.05	—	0.05	—	1,126
Demolition	—	—	—	1.43	1.43	—	0.22	0.22	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.42	0.01	—	0.01	0.01	—	0.01	—	133
Demolition	—	—	—	0.17	0.17	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.08	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.0
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.43	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.51	0.04	1.85	1.89	0.04	0.48	0.51	4.60	2,180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.31	< 0.005	0.21	0.22	< 0.005	0.06	0.06	0.23	257
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.04	42.5

3.3. Grading (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.52	0.16	—	0.16	0.15	—	0.15	—	597
Dust From Material Movement	—	—	—	0.74	0.74	—	0.34	0.34	—	—
Onsite truck	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	0.02	0.19	0.01	—	0.01	0.01	—	0.01	—	32.7
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.41
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.43	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	16.3	0.25	12.0	12.3	0.25	3.09	3.34	29.9	14,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	5.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.92	0.01	0.65	0.66	0.01	0.17	0.18	0.71	774
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.17	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.12	128

3.4. Grading (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	1.98	0.02	—	0.02	0.02	—	0.02	—	597
Dust From Material Movement	—	—	—	0.74	0.74	—	0.34	0.34	—	—
Onsite truck	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	< 0.005	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.7
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.41
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.43	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	16.3	0.25	12.0	12.3	0.25	3.09	3.34	29.9	14,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	5.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.92	0.01	0.65	0.66	0.01	0.17	0.18	0.71	774
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.17	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.12	128

3.5. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.26	0.05	—	0.05	0.05	—	0.05	—	307
Onsite truck	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	0.13	1.26	0.05	—	0.05	0.05	—	0.05	—	307
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.27	0.01	—	0.01	0.01	—	0.01	—	65.5
Onsite truck	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	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.09	0.00	1.46	1.46	0.00	0.36	0.36	1.47	377
Vendor	0.01	0.55	0.01	0.43	0.44	0.01	0.11	0.12	1.21	473
Hauling	0.01	0.30	< 0.005	0.22	0.23	< 0.005	0.06	0.06	0.56	265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.00	1.46	1.46	0.00	0.36	0.36	0.04	349
Vendor	0.01	0.58	0.01	0.43	0.44	0.01	0.11	0.12	0.03	472
Hauling	0.01	0.32	< 0.005	0.22	0.23	< 0.005	0.06	0.06	0.01	264
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.31	0.31	0.00	0.08	0.08	0.14	75.2
Vendor	< 0.005	0.12	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.11	101
Hauling	< 0.005	0.07	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.05	56.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	0.06	0.06	0.00	0.01	0.01	0.02	12.4
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	16.7
Hauling	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	9.36

3.6. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.14	0.01	—	0.01	0.01	—	0.01	—	307
Onsite truck	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	0.04	1.14	0.01	—	0.01	0.01	—	0.01	—	307
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.24	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	65.5
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.09	0.00	1.46	1.46	0.00	0.36	0.36	1.47	377
Vendor	0.01	0.55	0.01	0.43	0.44	0.01	0.11	0.12	1.21	473
Hauling	0.01	0.30	< 0.005	0.22	0.23	< 0.005	0.06	0.06	0.56	265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.00	1.46	1.46	0.00	0.36	0.36	0.04	349
Vendor	0.01	0.58	0.01	0.43	0.44	0.01	0.11	0.12	0.03	472

Hauling	0.01	0.32	< 0.005	0.22	0.23	< 0.005	0.06	0.06	0.01	264
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.31	0.31	0.00	0.08	0.08	0.14	75.2
Vendor	< 0.005	0.12	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.11	101
Hauling	< 0.005	0.07	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.05	56.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	0.06	0.06	0.00	0.01	0.01	0.02	12.4
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	16.7
Hauling	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	9.36

3.7. Paving (2026) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.19	—	0.19	0.18	—	0.18	—	909
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	49.8
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.25
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.34	0.04	1.69	1.73	0.02	0.43	0.46	0.10	1,949
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	6.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.13	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.09	107
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	17.7

3.8. Paving (2026) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	4.32	0.05	—	0.05	0.05	—	0.05	—	909
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.24	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.8
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.25
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.34	0.04	1.69	1.73	0.02	0.43	0.46	0.10	1,949
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	6.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.13	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.09	107
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	17.7
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3.9. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.87
Architectural Coatings	0.99	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.29	0.29	0.00	0.07	0.07	0.01	69.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	1.07	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.87
Architectural Coatings	0.99	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.29	0.29	0.00	0.07	0.07	0.01	69.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	0.02	—	0.02	0.02	—	0.02	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5
Architectural Coatings	1.95	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.29	0.29	0.00	0.07	0.07	0.01	68.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2026) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	1.07	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5
Architectural Coatings	1.95	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.29	0.29	0.00	0.07	0.07	0.01	68.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	1.10	0.04	—	0.04	0.04	—	0.04	—	291
Onsite truck	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	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.98
Onsite truck	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	0.01	0.01	0.00	0.09	0.09	0.00	0.02	0.02	0.09	22.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.18	0.01	—	0.01	0.01	—	0.01	—	291
Onsite truck	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	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.98
Onsite truck	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	0.01	0.01	0.00	0.09	0.09	0.00	0.02	0.02	0.09	22.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.84

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.06	0.02	1.04	1.06	0.02	0.18	0.20	9.40	2,985
General Office Building	0.18	0.15	< 0.005	0.14	0.15	< 0.005	0.03	0.03	1.29	411
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.45	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	3,396
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.23	1.24	0.02	1.04	1.06	0.02	0.18	0.20	0.24	2,814
General Office Building	0.17	0.17	< 0.005	0.14	0.15	< 0.005	0.03	0.03	0.03	387

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.40	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.28	3,201
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.21	< 0.005	0.19	0.19	< 0.005	0.03	0.04	0.67	469
General Office Building	0.02	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.07	48.8
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	517

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.06	0.02	1.04	1.06	0.02	0.18	0.20	9.40	2,985
General Office Building	0.18	0.15	< 0.005	0.14	0.15	< 0.005	0.03	0.03	1.29	411
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.45	1.21	0.02	1.18	1.20	0.02	0.21	0.23	10.7	3,396
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.23	1.24	0.02	1.04	1.06	0.02	0.18	0.20	0.24	2,814
General Office Building	0.17	0.17	< 0.005	0.14	0.15	< 0.005	0.03	0.03	0.03	387
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	1.40	1.41	0.02	1.18	1.20	0.02	0.21	0.23	0.28	3,201
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.22	0.21	< 0.005	0.19	0.19	< 0.005	0.03	0.04	0.67	469
General Office Building	0.02	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.07	48.8
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.24	< 0.005	0.21	0.21	< 0.005	0.04	0.04	0.74	517

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	637
General Office Building	—	—	—	—	—	—	—	—	—	91.4
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	637
General Office Building	—	—	—	—	—	—	—	—	—	91.4
Parking Lot	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	728
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	105
General Office Building	—	—	—	—	—	—	—	—	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	121

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	637
General Office Building	—	—	—	—	—	—	—	—	—	91.4
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	637
General Office Building	—	—	—	—	—	—	—	—	—	91.4
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	728

Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	105
General Office Building	—	—	—	—	—	—	—	—	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	121

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
General Office Building	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
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.21	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	—	—	—	—	—	—	—	—	—
Total	2.51	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.21	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	—	—	—	—	—	—	—	—	—
Total	2.51	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.40	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	—	—	—	—	—	—	—	—	—

Total	0.46	—	—	—	—	—	—	—	—	—
-------	------	---	---	---	---	---	---	---	---	---

4.3.1. Mitigated

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

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.21	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	—	—	—	—	—	—	—	—	—
Total	2.51	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.21	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	—	—	—	—	—	—	—	—	—
Total	2.51	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.40	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	—	—	—	—	—	—	—	—	—
Total	0.46	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	165
General Office Building	—	—	—	—	—	—	—	—	—	6.55
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	165
General Office Building	—	—	—	—	—	—	—	—	—	6.55
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	172
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	27.4
General Office Building	—	—	—	—	—	—	—	—	—	1.08
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	28.4

4.4.1. Mitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
----------	-----	-----	-------	-------	-------	--------	--------	--------	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	165
General Office Building	—	—	—	—	—	—	—	—	—	6.55
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	165
General Office Building	—	—	—	—	—	—	—	—	—	6.55
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	172
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	27.4
General Office Building	—	—	—	—	—	—	—	—	—	1.08
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	28.4

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	172
General Office Building	—	—	—	—	—	—	—	—	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	181
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	172
General Office Building	—	—	—	—	—	—	—	—	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	181
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	28.5
General Office Building	—	—	—	—	—	—	—	—	—	1.45
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	29.9

4.5.1. Mitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	172
General Office Building	—	—	—	—	—	—	—	—	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	181
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	172
General Office Building	—	—	—	—	—	—	—	—	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	181
Annual	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	28.5
General Office Building	—	—	—	—	—	—	—	—	—	1.45
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	29.9

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.01	0.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	< 0.005	< 0.005

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.01	0.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	< 0.005	< 0.005

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/1/2025	6/30/2025	5.00	43.0	—
Grading	Grading	7/2/2025	7/29/2025	5.00	20.0	—
Building Construction	Building Construction	8/26/2025	12/11/2025	5.00	78.0	—

Paving	Paving	3/2/2026	3/27/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	12/2/2025	2/28/2026	5.00	64.0	—
Trenching	Trenching	8/2/2025	8/22/2025	5.00	15.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	1.90	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	2.80	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	2.80	367	0.40
Grading	Excavators	Diesel	Average	1.00	2.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	2.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	2.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	1.03	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	1.03	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	1.03	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	1.03	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	4.80	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	4.80	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	4.80	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	1.90	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	2.00	2.80	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	2.80	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	1.00	2.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	2.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	2.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	1.03	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	2.00	1.03	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	1.03	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	1.03	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	4.80	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	4.80	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	4.80	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	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
Demolition	—	—	—	—

Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	29.6	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.5	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	192	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	42.9	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	16.9	8.40	HHDT,MHDT
Building Construction	Hauling	3.59	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	27.0	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.57	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	2.50	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT

Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	29.6	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.5	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	192	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	42.9	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	16.9	8.40	HHDT,MHDT
Building Construction	Hauling	3.59	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	27.0	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.57	11.7	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	2.50	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	155,109	51,703	—

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	60,390	—
Grading	15,700	14,987	5.00	0.00	—
Paving	0.00	0.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	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
Unrefrigerated Warehouse-No Rail	394	394	394	143,744	3,776	3,776	3,776	1,378,220
General Office Building	54.2	12.3	3.90	14,975	520	118	37.4	143,584
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	394	394	394	143,744	3,776	3,776	3,776	1,378,220
General Office Building	54.2	12.3	3.90	14,975	520	118	37.4	143,584
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	155,109	51,703	—

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)
Unrefrigerated Warehouse-No Rail	1,128,562	204	0.0330	0.0040	0.00
General Office Building	162,024	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,128,562	204	0.0330	0.0040	0.00
General Office Building	162,024	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	22,431,250	0.00
General Office Building	888,669	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	22,431,250	0.00
General Office Building	888,669	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	91.2	—
General Office Building	4.65	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	91.2	—
General Office Building	4.65	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	14.0	annual days of extreme heat
Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

6.2. Initial Climate Risk Scores

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

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	14.9
AQ-PM	29.7
AQ-DPM	55.7
Drinking Water	6.74
Lead Risk Housing	22.2
Pesticides	0.00
Toxic Releases	56.1
Traffic	70.3
Effect Indicators	—
CleanUp Sites	20.7
Groundwater	74.8
Haz Waste Facilities/Generators	81.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	94.0
Cardio-vascular	90.2
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	44.3
Housing	42.8
Linguistic	73.1
Poverty	20.1

Unemployment	32.3
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7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	66.67522135
Employed	36.78942641
Median HI	63.45438214
Education	—
Bachelor's or higher	36.87925061
High school enrollment	100
Preschool enrollment	21.01886308
Transportation	—
Auto Access	70.20402926
Active commuting	69.70358014
Social	—
2-parent households	11.29218529
Voting	45.52803798
Neighborhood	—
Alcohol availability	73.4377005
Park access	61.76055434
Retail density	57.75696138
Supermarket access	46.16963942
Tree canopy	29.42384191
Housing	—
Homeownership	73.93814962

Housing habitability	9.303220839
Low-inc homeowner severe housing cost burden	39.11202361
Low-inc renter severe housing cost burden	0.128320287
Uncrowded housing	38.91954318
Health Outcomes	—
Insured adults	51.2511228
Arthritis	20.2
Asthma ER Admissions	7.6
High Blood Pressure	42.5
Cancer (excluding skin)	32.7
Asthma	58.2
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	35.3
Diagnosed Diabetes	25.3
Life Expectancy at Birth	22.3
Cognitively Disabled	38.1
Physically Disabled	20.3
Heart Attack ER Admissions	4.7
Mental Health Not Good	56.0
Chronic Kidney Disease	27.1
Obesity	78.0
Pedestrian Injuries	19.6
Physical Health Not Good	43.5
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	94.4
Current Smoker	56.0

No Leisure Time for Physical Activity	33.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	29.3
Children	87.0
Elderly	22.5
English Speaking	36.5
Foreign-born	82.1
Outdoor Workers	64.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	21.2
Traffic Density	74.4
Traffic Access	59.8
Other Indices	—
Hardship	59.3
Other Decision Support	—
2016 Voting	36.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	56.0
Healthy Places Index Score for Project Location (b)	49.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total lot acreage and square footages provided by construction worksheet filled out by project applicant.
Construction: Construction Phases	Construction schedule provided by filled out construction worksheet.
Construction: Off-Road Equipment	Provided by project applicant. Defaults used for architectural coating.
Construction: Trips and VMT	Building demo = 2,400-cy concrete hauled (13.4 truck trips/day), building const = 140 concrete round truck trips (3.59 trips/day), paving = 2,250-cy asphalt (27 trips/day).
Construction: On-Road Fugitive Dust	Silt loading 0.5 g/m2. BAAMQD basic BMPs - 15mph unpaved travel speed
Operations: Vehicle Data	Traffic Provided Trip Gen - Passenger Vehicles only - trucks modeled separately
Operations: Energy Use	No natural gas
Operations: Water and Waste Water	WWTP 100 Aerobic, no lagoons or septic tanks

23-031 Centerpoint Industrial, Hayward Trucks Detailed 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	23-031 Centerpoint Industrial, Hayward Trucks
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	30.0
Location	29469 Ruus Rd, Hayward, CA 94544, USA
County	Alameda
City	Hayward
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1600
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.12

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 Industrial	1.00	User Defined Unit	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	18.6	0.27	2.26	2.53	0.25	0.54	0.80	31.9	17,384
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29	19.6	0.27	2.26	2.53	0.25	0.54	0.80	0.83	17,362
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	19.3	0.27	2.26	2.53	0.25	0.54	0.80	13.8	17,369
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	3.51	0.05	0.41	0.46	0.05	0.10	0.15	2.28	2,876

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.31	18.6	0.27	2.26	2.53	0.25	0.54	0.80	31.9	16,483

Area	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	0.00
Total	0.31	18.6	0.27	2.26	2.53	0.25	0.54	0.80	31.9	17,384
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	19.6	0.27	2.26	2.53	0.25	0.54	0.80	0.83	16,461
Area	0.00	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	0.00
Total	0.29	19.6	0.27	2.26	2.53	0.25	0.54	0.80	0.83	17,362
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	0.30	19.3	0.27	2.26	2.53	0.25	0.54	0.80	13.8	16,469
Area	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	728
Water	—	—	—	—	—	—	—	—	—	172
Waste	—	—	—	—	—	—	—	—	—	0.00
Total	0.30	19.3	0.27	2.26	2.53	0.25	0.54	0.80	13.8	17,369
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	3.51	0.05	0.41	0.46	0.05	0.10	0.15	2.28	2,727
Area	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	121
Water	—	—	—	—	—	—	—	—	—	28.4
Waste	—	—	—	—	—	—	—	—	—	0.00
Total	0.06	3.51	0.05	0.41	0.46	0.05	0.10	0.15	2.28	2,876

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.31	18.6	0.27	2.26	2.53	0.25	0.54	0.80	31.9	16,483
Total	0.31	18.6	0.27	2.26	2.53	0.25	0.54	0.80	31.9	16,483
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

User Defined Industrial	0.29	19.6	0.27	2.26	2.53	0.25	0.54	0.80	0.83	16,461
Total	0.29	19.6	0.27	2.26	2.53	0.25	0.54	0.80	0.83	16,461
Annual	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.06	3.51	0.05	0.41	0.46	0.05	0.10	0.15	2.28	2,727
Total	0.06	3.51	0.05	0.41	0.46	0.05	0.10	0.15	2.28	2,727

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	637

undefined	—	—	—	—	—	—	—	—	—	91.4
Total	—	—	—	—	—	—	—	—	—	728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	637
undefined	—	—	—	—	—	—	—	—	—	91.4
Total	—	—	—	—	—	—	—	—	—	728
Annual	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	105
undefined	—	—	—	—	—	—	—	—	—	15.1
Total	—	—	—	—	—	—	—	—	—	121

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
----------	-----	-----	-------	-------	-------	--------	--------	--------	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—
Total	0.00	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.3.1. Mitigated

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

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
--------	-----	-----	-------	-------	-------	--------	--------	--------	---	------

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

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	165
undefined	—	—	—	—	—	—	—	—	—	6.55
Total	—	—	—	—	—	—	—	—	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	165
undefined	—	—	—	—	—	—	—	—	—	6.55
Total	—	—	—	—	—	—	—	—	—	172
Annual	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	27.4
undefined	—	—	—	—	—	—	—	—	—	1.08

Total	—	—	—	—	—	—	—	—	—	28.4
-------	---	---	---	---	---	---	---	---	---	------

4.4.1. Mitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	0.00

4.5.1. Mitigated

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

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
User Defined Industrial	233	233	233	85,045	4,660	4,660	4,660	1,700,900
—	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
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5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	—

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)
User Defined Industrial	1,128,562	204	0.0330	0.0040	0.00
—	162,024	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
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5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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Unrefrigerated Warehouse-No Rail	22,431,250	0.00
General Office Building	888,669	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
User Defined Industrial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	14.0	annual days of extreme heat

Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	14.9
AQ-PM	29.7
AQ-DPM	55.7
Drinking Water	6.74
Lead Risk Housing	22.2
Pesticides	0.00

Toxic Releases	56.1
Traffic	70.3
Effect Indicators	—
CleanUp Sites	20.7
Groundwater	74.8
Haz Waste Facilities/Generators	81.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	94.0
Cardio-vascular	90.2
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	44.3
Housing	42.8
Linguistic	73.1
Poverty	20.1
Unemployment	32.3

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	66.67522135
Employed	36.78942641
Median HI	63.45438214
Education	—

Bachelor's or higher	36.87925061
High school enrollment	100
Preschool enrollment	21.01886308
Transportation	—
Auto Access	70.20402926
Active commuting	69.70358014
Social	—
2-parent households	11.29218529
Voting	45.52803798
Neighborhood	—
Alcohol availability	73.4377005
Park access	61.76055434
Retail density	57.75696138
Supermarket access	46.16963942
Tree canopy	29.42384191
Housing	—
Homeownership	73.93814962
Housing habitability	9.303220839
Low-inc homeowner severe housing cost burden	39.11202361
Low-inc renter severe housing cost burden	0.128320287
Uncrowded housing	38.91954318
Health Outcomes	—
Insured adults	51.2511228
Arthritis	20.2
Asthma ER Admissions	7.6
High Blood Pressure	42.5
Cancer (excluding skin)	32.7

Asthma	58.2
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	35.3
Diagnosed Diabetes	25.3
Life Expectancy at Birth	22.3
Cognitively Disabled	38.1
Physically Disabled	20.3
Heart Attack ER Admissions	4.7
Mental Health Not Good	56.0
Chronic Kidney Disease	27.1
Obesity	78.0
Pedestrian Injuries	19.6
Physical Health Not Good	43.5
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	94.4
Current Smoker	56.0
No Leisure Time for Physical Activity	33.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	29.3
Children	87.0
Elderly	22.5
English Speaking	36.5
Foreign-born	82.1
Outdoor Workers	64.5
Climate Change Adaptive Capacity	—

Impervious Surface Cover	21.2
Traffic Density	74.4
Traffic Access	59.8
Other Indices	—
Hardship	59.3
Other Decision Support	—
2016 Voting	36.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	56.0
Healthy Places Index Score for Project Location (b)	49.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Land Use	Total lot acreage and square footages provided by construction worksheet filled out by project applicant.
Construction: Construction Phases	Construction schedule provided by filled out construction worksheet.
Construction: Off-Road Equipment	Provided by project applicant. Defaults used for architectural coating.
Construction: Trips and VMT	Building demo = 2,400-cy concrete hauled (13.4 truck trips/day), building const = 140 concrete round truck trips (3.59 trips/day), paving = 2,250-cy asphalt (27 trips/day).
Construction: On-Road Fugitive Dust	Silt loading 0.5 g/m ² . BAAMQD basic BMPs - 15mph unpaved travel speed
Operations: Vehicle Data	Traffic Provided Trip Gen - Trucks only, 20mi trip length - passenger vehicles modeled separately
Operations: Energy Use	No natural gas
Operations: Water and Waste Water	WWTP 100 Aerobic, no lagoons or septic tanks
Operations: Fleet Mix	Truck modeling - 100% HHDT

23-031 Centerpoint Industrial, Hayward Custom Report - HRA

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	23-031 Centerpoint Industrial, Hayward
Construction Start Date	5/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	30.0
Location	29469 Ruus Rd, Hayward, CA 94544, USA
County	Alameda
City	Hayward
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1600
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Unrefrigerated Warehouse-No Rail	97.0	1000sqft	7.62	97,646	0.00	0.00	—	—
General Office Building	5.00	1000sqft	0.00	5,760	0.00	0.00	—	—
Parking Lot	115	Space	0.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.84	7.78	0.31	1.50	1.80	0.28	0.42	0.58	0.77	1,294
Mit.	0.25	5.05	0.05	1.50	1.55	0.05	0.42	0.45	0.77	1,294
% Reduced	70%	35%	82%	—	14%	82%	—	22%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	17.3	4.74	0.19	0.11	0.26	0.18	0.03	0.19	< 0.005	1,014
Mit.	17.1	4.79	0.05	0.11	0.15	0.05	0.03	0.07	< 0.005	1,014
% Reduced	1%	-1%	73%	—	42%	72%	—	66%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.71	0.06	0.25	0.31	0.05	0.06	0.11	0.04	320

Mit.	1.96	1.18	0.01	0.25	0.27	0.01	0.06	0.07	0.04	320
% Reduced	1%	31%	79%	—	15%	79%	—	39%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.31	0.01	0.05	0.06	0.01	0.01	0.02	0.01	53.0
Mit.	0.36	0.21	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.01	53.0
% Reduced	1%	31%	79%	—	15%	79%	—	39%	—	—

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	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.84	7.78	0.31	1.50	1.80	0.28	0.42	0.58	0.77	1,294
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	17.3	2.45	0.08	0.11	0.18	0.07	0.03	0.10	< 0.005	528
2026	17.0	4.74	0.19	0.06	0.26	0.18	0.02	0.19	< 0.005	1,014
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	1.19	1.71	0.06	0.25	0.31	0.05	0.06	0.11	0.04	320
2026	1.99	0.36	0.01	< 0.005	0.02	0.01	< 0.005	0.01	< 0.005	71.5
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.22	0.31	0.01	0.05	0.06	0.01	0.01	0.02	0.01	53.0
2026	0.36	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.8

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.25	5.05	0.05	1.50	1.55	0.05	0.42	0.45	0.77	1,294
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	17.1	2.52	0.04	0.11	0.15	0.04	0.03	0.07	< 0.005	528
2026	16.9	4.79	0.05	0.06	0.12	0.05	0.02	0.07	< 0.005	1,014
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	1.07	1.18	0.01	0.25	0.27	0.01	0.06	0.07	0.04	320
2026	1.96	0.39	0.01	< 0.005	0.01	0.01	< 0.005	0.01	< 0.005	71.5
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.19	0.21	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.01	53.0
2026	0.36	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.8

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.30	0.31	—	0.31	0.28	—	0.28	—	1,126
Demolition	—	—	—	1.43	1.43	—	0.22	0.22	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.09	0.86	0.04	—	0.04	0.03	—	0.03	—	133
Demolition	—	—	—	0.17	0.17	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.01	—	0.01	0.01	—	0.01	—	22.0
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	7.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.47	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.12	106
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.6
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.08

3.2. Demolition (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	3.57	0.05	—	0.05	0.05	—	0.05	—	1,126
Demolition	—	—	—	1.43	1.43	—	0.22	0.22	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.42	0.01	—	0.01	0.01	—	0.01	—	133
Demolition	—	—	—	0.17	0.17	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.08	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.0
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	7.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.47	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.12	106
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.6
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.08

3.3. Grading (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.52	0.16	—	0.16	0.15	—	0.15	—	597
Dust From Material Movement	—	—	—	0.74	0.74	—	0.34	0.34	—	—
Onsite truck	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	0.02	0.19	0.01	—	0.01	0.01	—	0.01	—	32.7
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.41

Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	7.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	3.07	0.01	0.30	0.31	0.01	0.08	0.08	0.75	690
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.17	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	37.9
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.28

3.4. Grading (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	1.98	0.02	—	0.02	0.02	—	0.02	—	597

Dust From Material Movement	—	—	—	0.74	0.74	—	0.34	0.34	—	—
Onsite truck	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	< 0.005	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.7
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.41
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	7.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	3.07	0.01	0.30	0.31	0.01	0.08	0.08	0.75	690
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.17	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	37.9

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.28

3.5. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.26	0.05	—	0.05	0.05	—	0.05	—	307
Onsite truck	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	0.13	1.26	0.05	—	0.05	0.05	—	0.05	—	307
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.27	0.01	—	0.01	0.01	—	0.01	—	65.5
Onsite truck	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	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.12	0.03	0.00	0.06	0.06	0.00	0.02	0.02	0.06	24.2
Vendor	0.01	0.19	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.07	46.1
Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.04	0.00	0.06	0.06	0.00	0.02	0.02	< 0.005	23.6
Vendor	0.01	0.20	< 0.005	0.03	0.03	< 0.005	0.01	0.01	< 0.005	46.3
Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	13.0
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	5.04
Vendor	< 0.005	0.04	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	9.86
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.63
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.46

3.6. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.14	0.01	—	0.01	0.01	—	0.01	—	307
Onsite truck	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	0.04	1.14	0.01	—	0.01	0.01	—	0.01	—	307
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.24	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	65.5
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.03	0.00	0.06	0.06	0.00	0.02	0.02	0.06	24.2
Vendor	0.01	0.19	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.07	46.1
Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.04	0.00	0.06	0.06	0.00	0.02	0.02	< 0.005	23.6
Vendor	0.01	0.20	< 0.005	0.03	0.03	< 0.005	0.01	0.01	< 0.005	46.3
Hauling	< 0.005	0.06	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	13.0
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	5.04
Vendor	< 0.005	0.04	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	9.86
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.63

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.46
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3.7. Paving (2026) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.19	—	0.19	0.18	—	0.18	—	909
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	49.8
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.25
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	0.01	0.01	< 0.005	8.10

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.45	< 0.005	0.04	0.04	< 0.005	0.01	0.01	< 0.005	96.3
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.24
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.87

3.8. Paving (2026) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	4.32	0.05	—	0.05	0.05	—	0.05	—	909
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.24	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.8
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.25
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.02	0.02	0.00	0.01	0.01	< 0.005	8.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.45	< 0.005	0.04	0.04	< 0.005	0.01	0.01	< 0.005	96.3
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.24
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.87

3.9. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	0.88	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.87
Architectural Coatings	0.99	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	4.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	1.07	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.87
Architectural Coatings	0.99	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	4.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	0.02	—	0.02	0.02	—	0.02	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5
Architectural Coatings	1.95	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	4.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2026) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	1.07	0.03	—	0.03	0.03	—	0.03	—	134
Architectural Coatings	16.9	—	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5
Architectural Coatings	1.95	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	4.63

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2025) - Unmitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.10	0.04	—	0.04	0.04	—	0.04	—	291
Onsite truck	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	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.98

Onsite truck	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	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2025) - Mitigated

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

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.18	0.01	—	0.01	0.01	—	0.01	—	291
Onsite truck	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	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0
Onsite truck	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	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.98
Onsite truck	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	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/1/2025	6/30/2025	5.00	43.0	—
Grading	Grading	7/2/2025	7/29/2025	5.00	20.0	—
Building Construction	Building Construction	8/26/2025	12/11/2025	5.00	78.0	—
Paving	Paving	3/2/2026	3/27/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	12/2/2025	2/28/2026	5.00	64.0	—
Trenching	Trenching	8/2/2025	8/22/2025	5.00	15.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	1.90	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	2.80	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	2.80	367	0.40
Grading	Excavators	Diesel	Average	1.00	2.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	2.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	2.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	1.03	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	1.03	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	1.03	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	1.03	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	4.80	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	4.80	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	4.80	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	1.90	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	2.00	2.80	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	2.80	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	1.00	2.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	2.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	2.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	1.03	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	2.00	1.03	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	1.03	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	1.03	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	4.80	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	4.80	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	4.80	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	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
Demolition	—	—	—	—
Demolition	Worker	12.5	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	29.6	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.5	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	192	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	42.9	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	16.9	0.50	HHDT,MHDT
Building Construction	Hauling	3.59	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	27.0	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.57	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT

Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	2.50	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT
Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	29.6	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.5	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	192	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	42.9	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	16.9	0.50	HHDT,MHDT
Building Construction	Hauling	3.59	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2

Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	27.0	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.57	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	2.50	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT
Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	155,109	51,703	—

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 (Building Square Footage)	Acres Paved (acres)
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Demolition	0.00	0.00	0.00	60,390	—
Grading	15,700	14,987	5.00	0.00	—
Paving	0.00	0.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Land Use	Total lot acreage and square footages provided by construction worksheet filled out by project applicant.
Construction: Construction Phases	Construction schedule provided by filled out construction worksheet.
Construction: Off-Road Equipment	Provided by project applicant. Defaults used for architectural coating.

Construction: Trips and VMT	Building demo = 2,400-cy concrete hauled (13.4 truck trips/day), building const = 140 concrete round truck trips (3.59 trips/day), paving = 2,250-cy asphalt (27 trips/day). HRA 0.5 trip length for localized emissions
Construction: On-Road Fugitive Dust	Silt loading 0.5 g/m2. BAAMQD basic BMPs - 15mph unpaved travel speed
Operations: Vehicle Data	Traffic Provided Trip Gen - Passenger Vehicles only - trucks modeled separately
Operations: Energy Use	No natural gas
Operations: Water and Waste Water	WWTP 100 Aerobic, no lagoons or septic tanks

Attachment 2: Project Construction and Operation Emissions and Health Risk Calculations

Project Construction

Centerpoint Industrial, Hayward, CA Construction Emissions

Unmitigated Construction Criteria Air Pollutants		
Unmitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction Equipment		
2025-2026	0.0128	0.0119

Centerpoint Industrial, Hayward, CA

DPM Emissions and Modeling Emission Rates

Emissions Model		DPM	Area	DPM Emissions			Modeled Area	DPM Emission Rate
Year	Activity	(ton/year)	Source	(lb/yr)	(lb/hr)	(g/s)	(m ²)	(g/s/m ²)
2025-2026	Construction	0.0128	DPM	25.6	0.00819	1.03E-03	30,968	3.33E-08

Modeled Operation Hours

hr/day = 12 (7am - 7 pm Mon-Fri)
 days/yr = 260
 hours/year = 3120

PM2.5 Fugitive Dust Emissions for Modeling

Construction		Area	PM2.5 Emissions			Modeled Area	PM2.5 Emission Rate
Year	Activity	Source	(ton/year)	(lb/yr)	(lb/hr)	(g/s)	(m ²) g/s/m ²
2025-2026	Construction	FUG	0.0119	23.7	0.00760	9.58E-04	30,968 3.09E-08

Modeled Operation Hours

hr/day = 12 (7am - 7 pm Mon-Fri)
 days/yr = 260
 hours/year = 3120

Centerpoint Industrial, Hayward, CA - Uncontrolled Emissions
DPM Cancer Risk Calculations From Construction at Project MEI
Impacts at Off-Site Receptors-First Residential Floor Level

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Values

	Infant/Child				Adult
Age ->	3rd Trimester	0 - 2	2 - 9	2 - 16	16 - 30
Parameter					
ASF =	10	10	3	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	631	572	261
A =	1	1	1	1	1
EF =	350	350	350	350	350
AT =	70	70	70	70	70
FAH =	1.00	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Project Impact Receptor (MEI) Location - 1st Floor

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Maximum	
			DPM Conc (ug/m3)		Age Sensitivity		Modeled DPM Conc (ug/m3)		Age Sensitivity			
			Year	Annual	Factor		Year	Annual	Factor			
0	0.25	-0.25 - 0*	-	-	10	-	-	-	-	-	0.001	0.0238
1	1	0 - 1	2026**	0.00680	10	1.12	2026**	0.0068	1	0.02		
2	1	1 - 2	2027	0.00000	10	0.00	2027	0.0000	1	0.00		
3	1	2 - 3	2028	0.00000	3	0.00	2028	0.0000	1	0.00		
4	1	3 - 4	2029	0.00000	3	0.00	2029	0.0000	1	0.00		
5	1	4 - 5	2030	0.00000	3	0.00	2030	0.0000	1	0.00		
6	1	5 - 6	2031	0.00000	3	0.00	2031	0.0000	1	0.00		
7	1	6 - 7	2032	0.00000	3	0.00	2032	0.0000	1	0.00		
8	1	7 - 8	2033	0.00000	3	0.00	2033	0.0000	1	0.00		
9	1	8 - 9	2034	0.00000	3	0.00	2034	0.0000	1	0.00		
10	1	9 - 10	2035	0.00000	3	0.00	2035	0.0000	1	0.00		
11	1	10 - 11	2036	0.00000	3	0.00	2036	0.0000	1	0.00		
12	1	11 - 12	2037	0.00000	3	0.00	2037	0.0000	1	0.00		
13	1	12 - 13	2038	0.00000	3	0.00	2038	0.0000	1	0.00		
14	1	13 - 14	2039	0.00000	3	0.00	2039	0.0000	1	0.00		
15	1	14 - 15	2040	0.00000	3	0.00	2040	0.0000	1	0.00		
16	1	15 - 16	2041	0.00000	3	0.00	2041	0.0000	1	0.00		
17	1	16-17	2042	0.00000	1	0.00	2042	0.0000	1	0.00		
18	1	17-18	2043	0.00000	1	0.00	2043	0.0000	1	0.00		
19	1	18-19	2044	0.00000	1	0.00	2044	0.0000	1	0.00		
20	1	19-20	2045	0.00000	1	0.00	2045	0.0000	1	0.00		
21	1	20-21	2046	0.00000	1	0.00	2046	0.0000	1	0.00		
22	1	21-22	2047	0.00000	1	0.00	2047	0.0000	1	0.00		
23	1	22-23	2048	0.00000	1	0.00	2048	0.0000	1	0.00		
24	1	23-24	2049	0.00000	1	0.00	2049	0.0000	1	0.00		
25	1	24-25	2050	0.00000	1	0.00	2050	0.0000	1	0.00		
26	1	25-26	2051	0.00000	1	0.00	2051	0.0000	1	0.00		
27	1	26-27	2052	0.00000	1	0.00	2052	0.0000	1	0.00		
28	1	27-28	2053	0.00000	1	0.00	2053	0.0000	1	0.00		
29	1	28-29	2054	0.00000	1	0.00	2054	0.0000	1	0.00		
30	1	29-30	2055	0.00000	1	0.00	2055	0.0000	1	0.00		
Total Increased Cancer Risk						1.12				0.02		

* Third trimester of pregnancy

** Construction occurs over an 10-month period during 2025 and 2026.

Project Operation

Centerpoint Industrial, Hayward CA 2027 Project Truck DPM & PM2.5 Emissions

Diesel Truck Travel DPM/PM2.5 Exhaust Emissions

Road Segment	Road Segment ID	Road Segment Length (ft)	Road Segment Length (m)	No. Lanes	Modeled Road Width		Initial ^a Vertical Height (m)	Release ^a Height (m)	Percent of Daily Trucks	No. of Daily Truck Trips	Ave Travel Speed (mph)	DPM/PM2.5 ^b Emission Factor (g/veh-mi)	Truck Travel DPM Emissions	
					(ft)	(m)							Daily (g/day)	Hourly (lb/hr)
Off-Site -Industrial Pkwy W to South Drive	IPWSD_PM	1,472	449	4	67.7	20.6	6.8	3.4	60%	140	40	0.01013	0.3949	3.63E-05
Off-Site -Industrial Pkwy W & Russ Rd to North Drive	IPRND_PM	1199	366	2	43.7	13.3	6.8	3.4	5%	12	20	0.00618	0.0164	1.50E-06
Off-Site -Industrial Pkwy SW to South Drive	IPSWSD_PM	2671.8	814	4	67.7	20.6	6.8	3.4	35%	82	30	0.00765	0.3156	2.90E-05
On-Site Truck Route - South Drive	OSSD_PM	625	191	1	12	3.7	6.8	3.4	95%	221	5	0.08063	2.1133	1.94E-04
On-Site Truck Route - North Drive	OSND_PM	641	195	1	12	3.7	6.8	3.4	5%	12	5	0.08063	0.1141	1.05E-05

^a Line-volume source parameters based on EPA 2015

^b Emission factor from EMFAC2021 for 2027 running exhaust PM10 emissions. PM2.5 emissions assumed to be the same as PM10

On-Site Diesel Truck Idle Emissions

Description	Point Source Name	No. of Exhaust Points	Stack ^a Height (m)	Stack ^a Diameter (m)	Stack ^a Velocity (m/s)	Stack ^a Temp (°K)	No. of Daily Trucks	Idle ^b Emission Factor (g/veh-hr)	Truck Idle Emissions	
									Idle Emissions	
									Daily (g/day)	Hourly (lb/hr)
Truck Idle Point	PM_IDL	8	3.84	0.1	51.71	366	116.5	0.40317	7.8283	7.19E-04

^a Point source parameters from SJVAPCD *Guidance for Air Dispersion Modeling*.

^b Emission factor based on EMFAC2021 for PM10 emissions for 2027

Truck Information

Trucks per Day =	117
Truck Trips per day =	233
Operation Days =	365
Delivery Truck Hours (hrs/day) =	24

Truck Idle DPM (PM10) Emission Information (2027)

EMFAC2021 Emission Factor @ 5 mph (g/mi) =	0.08063
Truck Idle Emission Rate (g/hr) =	0.40317
Idle Time per Trip (min)	5
Idle Time per Truck (min)	10

Idle emission factor (g/hr) = EF @5 mph (g/mi) * 5 mph

References

EPA 2015 - *Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 nonattainment and maintenance Areas*, November 2015

705 Curtner Ave U-Box, San Jose, CA 2027 Project Truck Emissions - Fugitive PM2.5

Road Segment	Road Segment ID	Road Segment Length (ft)	Segment Length (m)	No. Lanes	Modeled Road Width		Initial ^a Vertical Height (m)	Release ^a Height (m)	Percent Daily Trucks	No. Daily Trucks	PM2.5 ^b Emission Factor (g/veh-mi)	Truck Travel Fugitive PM2.5 Emissions			
					(ft)	(m)						Daily (g/day)	Daily (lb/day)	Hourly (lb/hr)	Annual (lb/year)
Off-Site -Industrial Pkwy W to South Drive	IPWSD_FUG	1,472	449	4	67.7	20.6	2.6	1.3	60%	140	0.02430	0.947	2.09E-03	8.70E-05	7.62E-01
Off-Site -Industrial Pkwy W & Russ Rd to North Drive	IPRND_FUG	1199	366	2	43.7	13.3	2.6	1.3	5%	12	0.02430	0.064	1.42E-04	5.91E-06	5.18E-02
Off-Site -Industrial Pkwy SW to South Drive	IPSWSD_FUG	2671.8	814	4	67.7	20.6	2.6	1.3	35%	82	0.02430	1.003	2.21E-03	9.21E-05	8.07E-01
On-Site Truck Route - South Drive	OSSD_FUG	625	191	1	12	3.7	2.6	1.3	95%	221	0.02430	0.637	1.40E-03	5.85E-05	5.13E-01
On-Site Truck Route - North Drive	OSND_FUG	641	195	1	12	3.7	2.6	1.3	5%	12	0.02430	0.034	7.58E-05	3.16E-06	2.77E-02

^a Line-volume source parameters based on EPA 2015

^b Emission factors based on EMFAC2021 and CT-EMFAC2021 (see below)

Truck Information

Trucks per Day =	117
Trucks Trips per day =	233
Operation Days =	365
Delivery Truck Hours (hrs/day) =	24

Truck Fugitive PM2.5 Dust Emission Information (2027)

Tire Wear Emission Factor (g/veh-mi) ^a =	0.00216
Brake Wear Emission Factor (g/veh-mi) ^a =	0.00573
Fugitive Road Dust Emission Factor (g/veh-mi) ^a =	0.01642
Total Tire & Brake Wear Emission Factor (g/veh-mi)	0.00789
Total PM2.5 Fugitive PM2.5 Emission Factor (g/veh-mi) =	0.0243

^a Fugitive road dust emission factor from CT-EMFAC2021

References

EPA 2015 - *Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 nonattainment and maintenance Areas*, November 2015

Centerpoint industrial, Hayward, CA - AERMOD Modeling Parameters
Project Stand-by 102 hp Emergency Generator
Off-Site Residential Receptors - 1.5 meter Receptor Heights

DPM Emission Rates				
Source Type	Annual Operation	DPM Emissions		
	(hr)	Daily (lb/day)	Annual (lb/yr)	Annual (tons/yr)
Generator	150	0.0138	5.06	2.53E-03

Modeling Information	
Model:	AERMOD
Source	Diesel Engine - 102 hp emergency generator
Source Type	Point
Receptor Spacing	at off-site residences
Receptor Height	1.5 meters
Meteorological Data	2013-2017 BAAQMDHayward Executive Airport data
Point Source Stack Parameters	
Stack Height (ft)	5
Stack Diameter** (ft)	0.60
Stack Exit Velocity** (ft/sec)	149
Exhaust Temperature** (F)	872
Annual Emission Rate (lb/year)	5.06
Hourly Emission Rate (lb/hr)	5.77E-04
Hourly Emission Rate (g/sec)	7.27E-05

** BAAQMD default generator parameters

Centerpoint Industrial, Hayward - Project Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations- Unmitigated
Maximum Cancer Risk Calculations for Project Construction and Operation
Off-Site Residential Receptors - First Floor Receptor

Receptor Information

Number of Receptors	188
Receptor Level =	1st floor
Receptor distances =	at sensitive off-site residential locations

Meteorological Conditions

BAAQMD Hayward Executive Data	2013-2017
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site Project MEI Maximum Concentrations from Construction & Operation

Emission Years	Concentration (µg/m ³)		
	DPM	Exhaust TOG	Evaporative TOG
2025-26 - Construction	0.00680	0.0000	0.0000
2027-2055 Emergency Generator	0.00077		
2027-2055 - Project Diesel Trucks	0.00485	0.0000	0.0000
Emission Year	Maximum Total PM2.5 Concentration (µg/m3)*		
2026-2055	0.024		

* Maximum PM2.5 concentration due to project construction

Centerpoint Industrial, Hayward, CA - Project Impacts Unmitigated
Maximum Cancer Risk Calculations for Project Construction and Operation
Off-Site Residential Receptors - First Floor Receptor
Residential Exposure (30-year)

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Values

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - <2	2 - <16	16 - 30
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location - Project Construction & Operation

Exposure Year	Year	Exposure Duration (years)	Age	Maximum - Exposure Information			Cancer Risk (per million)				
				Age Sensitivity Factor	Annual TAC Conc (ug/m3)			DPM	Exhaust TOG	Evaporative TOG	Total
					DPM	Exhaust TOG	Evaporative TOG				
3rd Trimester	-	0.25	-0.25 - 0*	10	-	-	-	-	-	-	-
1	2026**	1	1	10	0.00680	0.0000	0.0000	1.12	0.0000	0.0000	1.12
2	2027	1	2	10	0.00562	0.0000	0.0000	0.92	0.0000	0.0000	0.923
3	2028	1	3	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
4	2029	1	4	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
5	2030	1	5	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
6	2031	1	6	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
7	2032	1	7	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
8	2033	1	8	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
9	2034	1	9	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
10	2035	1	10	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
11	2036	1	11	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
12	2037	1	12	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
13	2038	1	13	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
14	2039	1	14	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
15	2040	1	15	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
16	2041	1	16	3	0.00562	0.0000	0.0000	0.15	0.0000	0.0000	0.145
17	2042	1	17	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
18	2043	1	18	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
19	2044	1	19	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
20	2045	1	20	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
21	2046	1	21	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
22	2047	1	22	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
23	2048	1	23	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
24	2049	1	24	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
25	2050	1	25	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
26	2051	1	26	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
27	2052	1	27	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
28	2053	1	28	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
29	2054	1	29	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
30	2055	1	30	1	0.00562	0.0000	0.0000	0.016	0.0000	0.0000	0.016
Total Increased Cancer Risk								4.30	0.0000	0.0000	4.30

* Third trimester of pregnancy

** Construction occurs over an 10-month period during 2025 and 2026.

Centerpoint industrial, Hayward, CA - DPM Cancer Risks
Project Stand-by 102 hp Emergency Generator
Off-Site Residential Receptors - 1.5 meter Receptor Heights
30-Year Adult Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Values

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00

Age --> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 +
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Off-Site Project MEI Cancer Risk Receptor

Exposure Duration (years)	Age	Age Sensitivity Factor	DPM Annual Conc (ug/m3)	DPM Cancer Risk (per million)
0	-0.25 - 0*	10	0.00077	0.00
1	0 - 2	10	0.00077	0.13
14	2 - 16	3	0.00077	0.28
14	16+ _	1	0.00077	0.03
Total Increased Cancer Risk				0.44

* Third trimester of pregnancy

Centerpoint Industrial, Hayward - Project Construction & Operation Sources
Cancer Risk Calculations for Project Construction and Operation
at Off-Site Residential Receptors - First Residential Floor Level Receptors

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Exposure Type	Year(s) ->		2027-2055		2027-2055	
	Duration ->		29		29	
	Activity ->		Local Roads- Project Traffic		Generators	
	Construction		DPM		DPM	
3rd Tripsper (10)	0	0	0	0	0	0
Infltr (10)	1	1	1	1	1	1
Child (3)	0	0	14	14	14	14
Adult (1)	0	0	14	14	14	14

Receptor Coordinates			2025-2026	2027-2055			2027-2055	2025-2026	2027-2055			Project	2027-2055	Total - Cancer Risk (2026-2055)				
Receptor No.	UTM-X (m)	UTM-Y (m)	Description	Construction Concentrations DPM	On and Off-Site Project Trucks Concentration			Generator Cancer Risk (per million)	Construction Cancer Risk (per million)	On and Off-Site Project Trucks Cancer Risk (per million)			Trucks Cancer Risk (per million)	Generator Cancer Risk (per million)	Cancer Risk (per million)			
				DPM	DPM	Exh TOG	Evap TOG	DPM	DPM	Exh TOG	Evap TOG	DPM	Exh TOG	Evap TOG	Construction	Trucks	Generator	TOTAL
1	582390.2000	4163888.4800	Office-1st Floor	0.00674	0.00457	0.00000	0.00000	0.0009	1.107	2.5866	0.00000	0.00000	2.5866	0.4847	1.107	2.589	0.498	4.194
2	582388.3400	4163908.3300	Office-1st Floor	0.00680	0.00485	0.00000	0.00000	0.00077	1.117	2.7426	0.00000	0.00000	2.7426	0.4816	1.117	2.747	0.497	4.300
3	582386.8900	4163924.2200	Office-1st Floor	0.00653	0.00403	0.00000	0.00000	0.00071	1.081	2.3287	0.00000	0.00000	2.3287	0.37385	1.081	2.383	0.374	3.737
4	582386.3400	4163941.4200	Office-1st Floor	0.00614	0.00306	0.00000	0.00000	0.00066	1.008	1.73332	0.00000	0.00000	1.73332	0.33987	1.008	1.733	0.340	3.082
5	582366.4800	4163940.8700	Office-1st Floor	0.00451	0.00258	0.00000	0.00000	0.00056	0.741	1.46143	0.00000	0.00000	1.46143	0.24924	0.741	1.461	0.249	2.451
6	582368.6900	4163922.1200	Office-1st Floor	0.00502	0.00335	0.00000	0.00000	0.00066	0.825	1.89759	0.00000	0.00000	1.89759	0.31155	0.825	1.898	0.312	3.034
7	582369.2400	4163905.5700	Office-1st Floor	0.00517	0.00422	0.00000	0.00000	0.00066	0.849	2.39040	0.00000	0.00000	2.39040	0.35120	0.849	2.390	0.351	3.591
8	582372.5500	4163887.3300	Office-1st Floor	0.00535	0.00486	0.00000	0.00000	0.00066	0.879	2.80957	0.00000	0.00000	2.80957	0.44749	0.879	2.810	0.447	4.136
9	582340.0100	4163892.3400	Office-1st Floor	0.00343	0.00317	0.00000	0.00000	0.00044	0.596	1.79563	0.00000	0.00000	1.79563	0.23791	0.596	1.796	0.238	2.030
10	582318.5100	4163891.2400	Office-1st Floor	0.00292	0.00275	0.00000	0.00000	0.00038	0.480	1.55773	0.00000	0.00000	1.55773	0.20959	0.480	1.558	0.210	2.247
11	582302.5200	4163888.4800	Office-1st Floor	0.00253	0.00253	0.00000	0.00000	0.00034	0.416	1.43311	0.00000	0.00000	1.43311	0.18926	0.416	1.433	0.189	2.047
12	582283.7700	4163887.3800	Office-1st Floor	0.00217	0.00226	0.00000	0.00000	0.00034	0.356	1.28017	0.00000	0.00000	1.28017	0.18126	0.356	1.280	0.181	1.818
13	582267.7700	4163884.6200	Office-1st Floor	0.00192	0.00208	0.00000	0.00000	0.00033	0.315	1.17821	0.00000	0.00000	1.17821	0.16993	0.315	1.178	0.170	1.663
14	582250.1300	4163882.4100	Office-1st Floor	0.00170	0.00190	0.00000	0.00000	0.00033	0.279	1.07625	0.00000	0.00000	1.07625	0.16437	0.279	1.076	0.164	1.520
15	582248.4700	4163900.6100	Office-1st Floor	0.00162	0.00164	0.00000	0.00000	0.00026	0.266	0.92897	0.00000	0.00000	0.92897	0.13595	0.266	0.929	0.136	1.331
16	582265.5700	4163901.7100	Office-1st Floor	0.00183	0.00179	0.00000	0.00000	0.00033	0.301	1.01394	0.00000	0.00000	1.01394	0.14728	0.301	1.014	0.147	1.462
17	582283.7700	4163903.3700	Office-1st Floor	0.00209	0.00197	0.00000	0.00000	0.00033	0.343	1.11590	0.00000	0.00000	1.11590	0.15294	0.343	1.116	0.153	1.612
18	582299.2100	4163904.4700	Office-1st Floor	0.00237	0.00215	0.00000	0.00000	0.00033	0.389	1.21786	0.00000	0.00000	1.21786	0.16427	0.389	1.218	0.164	1.771
19	582317.4100	4163907.2300	Office-1st Floor	0.00279	0.00239	0.00000	0.00000	0.00033	0.458	1.33381	0.00000	0.00000	1.33381	0.17560	0.458	1.334	0.176	1.968
20	582338.2600	4163912.1800	Office-1st Floor	0.00245	0.00249	0.00000	0.00000	0.00033	0.368	1.09651	0.00000	0.00000	1.09651	0.18693	0.368	1.097	0.187	2.277
21	582336.1500	4163929.2800	Office-1st Floor	0.00217	0.00225	0.00000	0.00000	0.00033	0.521	1.27450	0.00000	0.00000	1.27450	0.15294	0.521	1.275	0.153	1.948
22	582315.7500	4163924.8700	Office-1st Floor	0.00259	0.00203	0.00000	0.00000	0.00033	0.425	1.14989	0.00000	0.00000	1.14989	0.14161	0.425	1.150	0.142	1.717
23	582295.9000	4163922.4700	Office-1st Floor	0.00217	0.00181	0.00000	0.00000	0.00022	0.356	1.02527	0.00000	0.00000	1.02527	0.13028	0.356	1.025	0.130	1.512
24	582278.8000	4163922.1200	Office-1st Floor	0.00189	0.00185	0.00000	0.00000	0.00022	0.310	0.93464	0.00000	0.00000	0.93464	0.12462	0.310	0.935	0.125	1.370
25	582261.1600	4163919.5100	Office-1st Floor	0.00167	0.00152	0.00000	0.00000	0.00022	0.274	0.86100	0.00000	0.00000	0.86100	0.11895	0.274	0.861	0.119	1.254
26	582245.1600	4163916.6900	Office-1st Floor	0.00151	0.00143	0.00000	0.00000	0.00022	0.248	0.81802	0.00000	0.00000	0.81802	0.11339	0.248	0.819	0.113	1.171
27	582367.1100	4163962.9300	Office-1st Floor	0.00247	0.00196	0.00000	0.00000	0.00033	0.570	1.11023	0.00000	0.00000	1.11023	0.14161	0.570	1.110	0.142	1.822
28	582372.0000	4163976.7100	Office-1st Floor	0.00395	0.00187	0.00000	0.00000	0.00033	0.649	1.05925	0.00000	0.00000	1.05925	0.15860	0.649	1.059	0.159	1.867
29	582375.3100	4163985.4600	Office-1st Floor	0.00370	0.00180	0.00000	0.00000	0.00033	0.608	0.90631	0.00000	0.00000	0.90631	0.15294	0.608	0.906	0.153	1.667
30	582365.7300	4164008.8000	Office-1st Floor	0.00295	0.00139	0.00000	0.00000	0.00022	0.485	0.78736	0.00000	0.00000	0.78736	0.13595	0.485	0.787	0.136	1.406
31	582363.1800	4164023.5800	Office-1st Floor	0.00279	0.00138	0.00000	0.00000	0.00022	0.443	0.72505	0.00000	0.00000	0.72505	0.13595	0.443	0.725	0.136	1.394
32	582363.1800	4164040.6800	Office-1st Floor	0.00241	0.00117	0.00000	0.00000	0.00022	0.396	0.66274	0.00000	0.00000	0.66274	0.13028	0.396	0.663	0.130	1.189
33	582360.9700	4164056.1200	Office-1st Floor	0.00213	0.00109	0.00000	0.00000	0.00022	0.350	0.61743	0.00000	0.00000	0.61743	0.12462	0.350	0.617	0.125	1.092
34	582338.7600	4164069.9100	Office-1st Floor	0.00191	0.00103	0.00000	0.00000	0.00022	0.314	0.58344	0.00000	0.00000	0.58344	0.11895	0.314	0.583	0.119	1.016
35	582336.5600	4164085.9000	Office-1st Floor	0.00171	0.00097	0.00000	0.00000	0.00022	0.281	0.54945	0.00000	0.00000	0.54945	0.11339	0.281	0.549	0.113	0.944
36	582337.1100	4164100.7600	Office-1st Floor	0.00158	0.00093	0.00000	0.00000	0.00022	0.260	0.52679	0.00000	0.00000	0.52679	0.11339	0.260	0.527	0.113	0.900
37	582354.3500	4164116.3200	Office-1st Floor	0.00144	0.00088	0.00000	0.00000	0.00022	0.237	0.49487	0.00000	0.00000	0.49487	0.10762	0.237	0.498	0.108	0.843
38	582354.3500	4164130.5700	Office-1st Floor	0.00135	0.00084	0.00000	0.00000	0.00022	0.222	0.47581	0.00000	0.00000	0.47581	0.10196	0.222	0.476	0.102	0.800
39	582352.7000	4164146.0100	Office-1st Floor	0.00125	0.00080	0.00000	0.00000	0.00022	0.205	0.45316	0.00000	0.00000	0.45316	0.09630	0.205	0.453	0.096	0.755
40	582349.6400	4164160.9000	Office-1st Floor	0.00116	0.00076	0.00000	0.00000	0.00022	0.191	0.43050	0.00000	0.00000	0.43050	0.09063	0.191	0.430	0.091	0.712
41	582307.4800	4164150.5700	Office-1st Floor	0.00094	0.00067	0.00000	0.00000	0.00022	0.154	0.37952	0.00000	0.00000	0.37952	0.08487	0.154	0.380	0.085	0.619
42	582310.2400	4164126.8600	Office-1st Floor	0.00076	0.00050	0.00000	0.00000	0.00022	0.124	0.30461	0.00000	0.00000	0.30461	0.07194	0.124	0.307	0.085	0.646
43	582312.4400	4164119.5400	Office-1st Floor	0.00108	0.00073	0.00000	0.00000	0.00022	0.177	0.41351	0.00000	0.00000	0.41351	0.09063	0.177	0.414	0.091	0.682
44	582313.5500	4164105.7500	Office-1st Floor	0.00114	0.00076	0.00000	0.00000	0.00022	0.187	0.43050	0.00000	0.00000	0.43050	0.09063	0.187	0.430	0.091	0.708
45	582315.2000	4164090.3100	Office-1st Floor	0.00123	0.00080	0.00000	0.00000	0.00022	0.202	0.45316	0.00000	0.00000	0.45316	0.09630	0.202	0.453	0.096	0.751
46	582316.8500	4164076.5200	Office-1st Floor	0.00132	0.00084	0.00000	0.00000	0.00022	0.217	0.47581	0.00000	0.00000	0.47581	0.09630	0.217	0.476	0.096	0.789
47	582319.0600	4164059.9800	Office-1st Floor	0.00145	0.00090	0.00000	0.00000	0.00022	0.238	0.50980	0.00000	0.00000	0.50980	0.09630	0.238	0.510	0.096	0.844
48	582322.3700	4164043.1300	Office-1st Floor	0.00157	0.00096	0.00000	0.00000	0.00022	0.260	0.54078	0.00000	0.00000	0.54078	0.10196	0.260	0.541	0.102	0.930
49	582307.4800	4164037.3700	Office-1st Floor	0.00146	0.00096	0.00000	0.00000	0.00022	0.240	0.54379	0.00000	0.00000	0.54379	0.09063	0.240	0.544	0.091	0.874
50	582289.2800	4164037.3700	Office-1st Floor	0.00126	0.0													

Receptor No	Receptor Coordinates		Description	2015-2016	2027-2055			2015-2016	2027-2055			Project Trucks	2027-2055			Total - Cancer Risk (2016-2055)			
	UTM-X	UTM-Y		Construction	On and Off-Site Project Trucks Concentration		Generator		Construction	On and Off-Site Project Trucks Cancer Risk (per million)			Cancer Risk	Cancer Risk		Cancer Risk	Cancer Risk (per million)		
				DPM	Exh TOG	Evap TOG	DPM		Exh TOG	Evap TOG	Risk			Risk	Risk				
																	Construction	Trucks	Generator
107	582713.0200	4163994.8800	Offsite-1st Floor	0.00741	0.00234	0.00000	0.00000	0.0002	1.217	1.25884	0.00000	0.00000	1.25884	0.11895	0.00000	1.217	1.259	0.119	2.605
108	582700.0300	4163995.3400	Offsite-1st Floor	0.00835	0.00239	0.00000	0.00000	0.0002	1.371	1.35381	0.00000	0.00000	1.35381	0.11895	0.00000	1.371	1.354	0.119	2.844
109	582662.4000	4164008.3300	Offsite-1st Floor	0.01122	0.00240	0.00000	0.00000	0.0002	1.843	1.35947	0.00000	0.00000	1.35947	0.11329	0.00000	1.843	1.359	0.113	3.316
110	582650.3100	4164020.4300	Offsite-1st Floor	0.01148	0.00212	0.00000	0.00000	0.0002	1.896	1.20087	0.00000	0.00000	1.20087	0.10196	0.00000	1.896	1.201	0.102	3.188
111	582641.8000	4164031.1800	Offsite-1st Floor	0.01097	0.00190	0.00000	0.00000	0.0002	1.802	1.07625	0.00000	0.00000	1.07625	0.06930	0.00000	1.802	1.076	0.069	2.974
112	582635.5300	4164045.5100	Offsite-1st Floor	0.00874	0.00165	0.00000	0.00000	0.0002	1.436	0.93464	0.00000	0.00000	0.93464	0.08497	0.00000	1.436	0.935	0.085	2.455
113	582626.1200	4164060.2800	Offsite-1st Floor	0.00646	0.00144	0.00000	0.00000	0.0001	1.061	0.81568	0.00000	0.00000	0.81568	0.07930	0.00000	1.061	0.816	0.079	1.956
114	582622.9900	4164075.9700	Offsite-1st Floor	0.00451	0.00125	0.00000	0.00000	0.0001	0.741	0.70806	0.00000	0.00000	0.70806	0.07364	0.00000	0.741	0.708	0.074	1.522
115	582618.0600	4164091.6500	Offsite-1st Floor	0.00336	0.00111	0.00000	0.00000	0.0001	0.552	0.62876	0.00000	0.00000	0.62876	0.06797	0.00000	0.552	0.629	0.068	1.249
116	582618.0600	4164106.2300	Offsite-1st Floor	0.00255	0.00098	0.00000	0.00000	0.0001	0.419	0.55512	0.00000	0.00000	0.55512	0.06231	0.00000	0.419	0.555	0.062	1.036
117	582619.4000	4164121.6600	Offsite-1st Floor	0.00210	0.00089	0.00000	0.00000	0.0001	0.345	0.50414	0.00000	0.00000	0.50414	0.05664	0.00000	0.345	0.504	0.057	0.906
118	582619.4000	4164138.6800	Offsite-1st Floor	0.00171	0.00079	0.00000	0.00000	0.0001	0.281	0.44749	0.00000	0.00000	0.44749	0.05664	0.00000	0.281	0.447	0.057	0.785
119	582621.2000	4164152.1200	Offsite-1st Floor	0.00147	0.00073	0.00000	0.00000	0.0001	0.241	0.41351	0.00000	0.00000	0.41351	0.05098	0.00000	0.241	0.414	0.051	0.706
120	582621.2000	4164166.9000	Offsite-1st Floor	0.00127	0.00067	0.00000	0.00000	0.0001	0.209	0.37952	0.00000	0.00000	0.37952	0.05098	0.00000	0.209	0.380	0.051	0.639
121	582623.9900	4164183.0200	Offsite-1st Floor	0.00100	0.00061	0.00000	0.00000	0.0001	0.181	0.34553	0.00000	0.00000	0.34553	0.04532	0.00000	0.181	0.346	0.045	0.572
122	582623.5400	4164199.6000	Offsite-1st Floor	0.00098	0.00056	0.00000	0.00000	0.0001	0.158	0.31721	0.00000	0.00000	0.31721	0.04532	0.00000	0.158	0.317	0.045	0.520
123	582625.6700	4164213.0300	Offsite-1st Floor	0.00086	0.00052	0.00000	0.00000	0.0001	0.141	0.29455	0.00000	0.00000	0.29455	0.03965	0.00000	0.141	0.295	0.040	0.475
124	582654.3400	4164208.1100	Offsite-1st Floor	0.00082	0.00052	0.00000	0.00000	0.0001	0.135	0.29455	0.00000	0.00000	0.29455	0.03965	0.00000	0.135	0.295	0.040	0.469
125	582656.1300	4164190.6400	Offsite-1st Floor	0.00093	0.00058	0.00000	0.00000	0.0001	0.153	0.31721	0.00000	0.00000	0.31721	0.04532	0.00000	0.153	0.317	0.045	0.515
126	582654.7900	4164176.7500	Offsite-1st Floor	0.00104	0.00060	0.00000	0.00000	0.0001	0.171	0.33987	0.00000	0.00000	0.33987	0.04532	0.00000	0.171	0.340	0.045	0.556
127	582655.3400	4164161.5200	Offsite-1st Floor	0.00119	0.00065	0.00000	0.00000	0.0001	0.195	0.35819	0.00000	0.00000	0.35819	0.04532	0.00000	0.195	0.358	0.045	0.609
128	582652.5500	4164144.0500	Offsite-1st Floor	0.00142	0.00073	0.00000	0.00000	0.0001	0.233	0.41351	0.00000	0.00000	0.41351	0.05098	0.00000	0.233	0.414	0.051	0.669
129	582651.2100	4164130.1700	Offsite-1st Floor	0.00165	0.00080	0.00000	0.00000	0.0001	0.271	0.45316	0.00000	0.00000	0.45316	0.05664	0.00000	0.271	0.453	0.057	0.781
130	582650.7600	4164115.3900	Offsite-1st Floor	0.00199	0.00088	0.00000	0.00000	0.0001	0.327	0.49847	0.00000	0.00000	0.49847	0.05664	0.00000	0.327	0.498	0.057	0.882
131	582649.8600	4164102.4000	Offsite-1st Floor	0.00240	0.00096	0.00000	0.00000	0.0001	0.394	0.54379	0.00000	0.00000	0.54379	0.06231	0.00000	0.394	0.544	0.062	1.000
132	582653.0300	4164081.3400	Offsite-1st Floor	0.00338	0.00113	0.00000	0.00000	0.0001	0.555	0.64008	0.00000	0.00000	0.64008	0.06797	0.00000	0.555	0.640	0.068	1.263
133	582665.0900	4164057.1600	Offsite-1st Floor	0.00506	0.00136	0.00000	0.00000	0.0001	0.831	0.77037	0.00000	0.00000	0.77037	0.07930	0.00000	0.831	0.770	0.079	1.681
134	582668.6800	4164071.4000	Offsite-1st Floor	0.00371	0.00119	0.00000	0.00000	0.0001	0.609	0.67407	0.00000	0.00000	0.67407	0.07364	0.00000	0.609	0.674	0.074	1.357
135	582670.0200	4164083.5800	Offsite-1st Floor	0.00295	0.00107	0.00000	0.00000	0.0001	0.485	0.60610	0.00000	0.00000	0.60610	0.06797	0.00000	0.485	0.606	0.068	1.159
136	582671.3600	4164102.4000	Offsite-1st Floor	0.00217	0.00092	0.00000	0.00000	0.0001	0.356	0.52113	0.00000	0.00000	0.52113	0.06231	0.00000	0.356	0.521	0.062	0.940
137	582671.3600	4164115.3900	Offsite-1st Floor	0.00182	0.00084	0.00000	0.00000	0.0001	0.299	0.47581	0.00000	0.00000	0.47581	0.05664	0.00000	0.299	0.476	0.057	0.831
138	582673.1500	4164130.1700	Offsite-1st Floor	0.00152	0.00077	0.00000	0.00000	0.0001	0.250	0.43616	0.00000	0.00000	0.43616	0.05098	0.00000	0.250	0.436	0.051	0.731
139	582674.9500	4164144.5000	Offsite-1st Floor	0.00130	0.00070	0.00000	0.00000	0.0001	0.214	0.39651	0.00000	0.00000	0.39651	0.05098	0.00000	0.214	0.397	0.051	0.661
140	582675.8400	4164160.6300	Offsite-1st Floor	0.00111	0.00064	0.00000	0.00000	0.0001	0.182	0.36253	0.00000	0.00000	0.36253	0.04532	0.00000	0.182	0.363	0.045	0.590
141	582678.5300	4164175.4100	Offsite-1st Floor	0.00098	0.00059	0.00000	0.00000	0.0001	0.161	0.33420	0.00000	0.00000	0.33420	0.04532	0.00000	0.161	0.334	0.045	0.540
142	582678.5700	4164191.9800	Offsite-1st Floor	0.00086	0.00054	0.00000	0.00000	0.0001	0.141	0.30588	0.00000	0.00000	0.30588	0.03965	0.00000	0.141	0.306	0.040	0.487
143	582679.3200	4164207.2100	Offsite-1st Floor	0.00077	0.00050	0.00000	0.00000	0.0001	0.126	0.28322	0.00000	0.00000	0.28322	0.03965	0.00000	0.126	0.283	0.040	0.449
144	582707.3000	4164188.8500	Offsite-1st Floor	0.00081	0.00053	0.00000	0.00000	0.0001	0.133	0.30022	0.00000	0.00000	0.30022	0.03965	0.00000	0.133	0.300	0.040	0.473
145	582706.3000	4164175.8600	Offsite-1st Floor	0.00090	0.00057	0.00000	0.00000	0.0001	0.148	0.32287	0.00000	0.00000	0.32287	0.04532	0.00000	0.148	0.323	0.045	0.516
146	582705.8500	4164157.9400	Offsite-1st Floor	0.00104	0.00063	0.00000	0.00000	0.0001	0.159	0.35686	0.00000	0.00000	0.35686	0.04532	0.00000	0.159	0.357	0.045	0.573
147	582704.5100	4164143.6000	Offsite-1st Floor	0.00119	0.00068	0.00000	0.00000	0.0001	0.195	0.38518	0.00000	0.00000	0.38518	0.05098	0.00000	0.195	0.385	0.051	0.632
148	582703.6100	4164128.8300	Offsite-1st Floor	0.00138	0.00074	0.00000	0.00000	0.0001	0.227	0.41917	0.00000	0.00000	0.41917	0.05098	0.00000	0.227	0.419	0.051	0.697
149	582702.7100	4164112.7000	Offsite-1st Floor	0.00167	0.00082	0.00000	0.00000	0.0001	0.274	0.46440	0.00000	0.00000	0.46440	0.05664	0.00000	0.274	0.464	0.057	0.795
150	582699.5800	4164100.1900	Offsite-1st Floor	0.00199	0.00090	0.00000	0.00000	0.0001	0.327	0.50980	0.00000	0.00000	0.50980	0.06231	0.00000	0.327	0.510	0.062	0.889
151	582698.6900	4164084.4800	Offsite-1st Floor	0.00251	0.00101	0.00000	0.00000	0.0001	0.412	0.57211	0.00000	0.00000	0.57211	0.06797	0.00000	0.412	0.572	0.068	1.052
152	582698.6900	4164069.7000	Offsite-1st Floor	0.00317	0.00113	0.00000	0.00000	0.0001	0.521	0.64008	0.00000	0.00000	0.64008	0.073640					

Centerpoint Industrial, Hayward - Project Impacts
 Total PM2.5 Concentrations From Construction and Operation
 Off-Site Residential Receptors - First Floor Receptors

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations	
				Construction 2025-2026	Operation 2027-2055
1	582390.20	416388.48	Offsite-1st Floor	0.016720	0.006260
2	582388.54	4163908.33	Offsite-1st Floor	0.016960	0.006300
3	582388.89	4163924.32	Offsite-1st Floor	0.016360	0.005290
4	582388.34	4163941.42	Offsite-1st Floor	0.015230	0.004170
5	582386.48	4163940.87	Offsite-1st Floor	0.009900	0.003480
6	582388.89	4163922.12	Offsite-1st Floor	0.011190	0.004450
7	582389.24	4163905.67	Offsite-1st Floor	0.011550	0.005480
8	582372.55	4163897.93	Offsite-1st Floor	0.012010	0.006510
9	582340.01	4163892.34	Offsite-1st Floor	0.007660	0.004230
10	582318.51	4163891.24	Offsite-1st Floor	0.006040	0.003710
11	582302.52	4163888.48	Offsite-1st Floor	0.005190	0.003450
12	582283.77	4163887.38	Offsite-1st Floor	0.004410	0.003120
13	582287.77	4163894.82	Offsite-1st Floor	0.003900	0.002920
14	582250.13	4163892.41	Offsite-1st Floor	0.003440	0.002700
15	582248.47	4163900.81	Offsite-1st Floor	0.003260	0.002300
16	582285.57	4163901.71	Offsite-1st Floor	0.003690	0.002490
17	582283.77	4163903.37	Offsite-1st Floor	0.004250	0.002710
18	582299.21	4163904.47	Offsite-1st Floor	0.004860	0.002930
19	582317.41	4163907.23	Offsite-1st Floor	0.005770	0.003210
20	582338.39	4163912.19	Offsite-1st Floor	0.007250	0.003550
21	582336.15	4163928.29	Offsite-1st Floor	0.006620	0.002970
22	582315.75	4163924.87	Offsite-1st Floor	0.005330	0.002710
23	582286.90	4163922.67	Offsite-1st Floor	0.004430	0.002460
24	582278.80	4163922.12	Offsite-1st Floor	0.003630	0.002260
25	582261.18	4163919.91	Offsite-1st Floor	0.003360	0.002100
26	582245.18	4163916.80	Offsite-1st Floor	0.003030	0.001990
27	582357.11	4163962.92	Offsite-1st Floor	0.007330	0.002590
28	582372.00	4163976.71	Offsite-1st Floor	0.008460	0.002520
29	582375.31	4163965.48	Offsite-1st Floor	0.007820	0.002210
30	582363.73	4164009.80	Offsite-1st Floor	0.006110	0.001920
31	582363.18	4164023.58	Offsite-1st Floor	0.005540	0.001790
32	582363.18	4164040.88	Offsite-1st Floor	0.004910	0.001660
33	582360.97	4164056.12	Offsite-1st Floor	0.004310	0.001560
34	582358.78	4164069.91	Offsite-1st Floor	0.003860	0.001470
35	582356.58	4164085.90	Offsite-1st Floor	0.003440	0.001390
36	582357.11	4164100.79	Offsite-1st Floor	0.003180	0.001330
37	582354.35	4164116.23	Offsite-1st Floor	0.002890	0.001260
38	582354.35	4164130.57	Offsite-1st Floor	0.002710	0.001210
39	582352.70	4164146.01	Offsite-1st Floor	0.002510	0.001140
40	582349.94	4164180.90	Offsite-1st Floor	0.002320	0.001090
41	582307.48	4164150.97	Offsite-1st Floor	0.001870	0.000970
42	582310.24	4164136.08	Offsite-1st Floor	0.001990	0.001010
43	582312.44	4164119.54	Offsite-1st Floor	0.002140	0.001050
44	582313.55	4164105.75	Offsite-1st Floor	0.002270	0.001090
45	582315.20	4164090.31	Offsite-1st Floor	0.002440	0.001150
46	582316.85	4164076.52	Offsite-1st Floor	0.002630	0.001200
47	582319.08	4164059.98	Offsite-1st Floor	0.002900	0.001280
48	582322.37	4164042.33	Offsite-1st Floor	0.003260	0.001390
49	582307.48	4164037.37	Offsite-1st Floor	0.002910	0.001340
50	582289.28	4164037.37	Offsite-1st Floor	0.002500	0.001260
51	582288.73	4164056.67	Offsite-1st Floor	0.002300	0.001160
52	582286.52	4164071.56	Offsite-1st Floor	0.002130	0.001090
53	582285.97	4164086.45	Offsite-1st Floor	0.002000	0.001040
54	582283.22	4164101.89	Offsite-1st Floor	0.001860	0.000990
55	582282.68	4164116.23	Offsite-1st Floor	0.001770	0.000960
56	582279.91	4164132.22	Offsite-1st Floor	0.001660	0.000910
57	582278.80	4164149.32	Offsite-1st Floor	0.001570	0.000880
58	582323.47	4163968.77	Offsite-1st Floor	0.004030	0.001720
59	582307.48	4163967.87	Offsite-1st Floor	0.003450	0.001630
60	582294.24	4163967.11	Offsite-1st Floor	0.003070	0.001550
61	582277.15	4163963.81	Offsite-1st Floor	0.002710	0.001480
62	582282.81	4163992.15	Offsite-1st Floor	0.002450	0.001420
63	582324.02	4163976.18	Offsite-1st Floor	0.004510	0.001980
64	582338.39	4163983.48	Offsite-1st Floor	0.005680	0.002320
65	582298.10	4163971.20	Offsite-1st Floor	0.003590	0.001820
66	582279.91	4163971.75	Offsite-1st Floor	0.003070	0.001680
67	582280.61	4163968.99	Offsite-1st Floor	0.002690	0.001580
68	582263.91	4163952.45	Offsite-1st Floor	0.002990	0.001740
69	582279.91	4163953.00	Offsite-1st Floor	0.003370	0.001860
70	582303.07	4163955.20	Offsite-1st Floor	0.004080	0.002050
71	582503.25	4164225.97	Offsite-1st Floor	0.002250	0.000880
72	582488.70	4164227.07	Offsite-1st Floor	0.002300	0.000900
73	582470.71	4164224.87	Offsite-1st Floor	0.002380	0.000930
74	582458.58	4164227.07	Offsite-1st Floor	0.002350	0.000930
75	582442.59	4164224.87	Offsite-1st Floor	0.002360	0.000950
76	582424.94	4164222.88	Offsite-1st Floor	0.002330	0.000970
77	582410.05	4164221.56	Offsite-1st Floor	0.002260	0.000970
78	582396.28	4164218.80	Offsite-1st Floor	0.002200	0.000970
79	582378.07	4164214.39	Offsite-1st Floor	0.002110	0.000970
80	582365.93	4164212.18	Offsite-1st Floor	0.002030	0.000970
81	582349.94	4164210.53	Offsite-1st Floor	0.001920	0.000950
82	582335.05	4164205.01	Offsite-1st Floor	0.001830	0.000930
83	582319.61	4164203.36	Offsite-1st Floor	0.001710	0.000900
84	582299.21	4164199.50	Offsite-1st Floor	0.001550	0.000860
85	582281.58	4164195.64	Offsite-1st Floor	0.001430	0.000820
86	582263.91	4164193.43	Offsite-1st Floor	0.001310	0.000780
87	582527.81	4164228.18	Offsite-1st Floor	0.002060	0.000830
88	582545.38	4164227.89	Offsite-1st Floor	0.001960	0.000800
89	582571.48	4164222.57	Offsite-1st Floor	0.001870	0.000780
90	582316.33	4164236.72	Offsite-1st Floor	0.001510	0.000820
91	582338.77	4164236.72	Offsite-1st Floor	0.001650	0.000860
92	582365.60	4164241.59	Offsite-1st Floor	0.001790	0.000870
93	582389.99	4164245.01	Offsite-1st Floor	0.001900	0.000880
94	582420.73	4164252.33	Offsite-1st Floor	0.001950	0.000860
95	582439.27	4164252.33	Offsite-1st Floor	0.001990	0.000850

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations	
				Construction 2025-2026	Operation 2027-2055
96	582473.90	4164252.81	Offsite-1st Floor	0.001950	0.000820
97	582492.93	4164253.30	Offsite-1st Floor	0.001880	0.000790
98	582516.35	4164256.72	Offsite-1st Floor	0.001740	0.000750
99	582532.94	4164258.67	Offsite-1st Floor	0.001630	0.000720
100	582558.79	4164260.13	Offsite-1st Floor	0.001490	0.000680
101	582567.57	4164244.52	Offsite-1st Floor	0.001620	0.000720
102	582788.27	4163989.97	Offsite-1st Floor	0.008460	0.002170
103	582773.49	4163988.62	Offsite-1st Floor	0.009470	0.002340
104	582756.60	4163990.41	Offsite-1st Floor	0.010340	0.002460
105	582744.37	4163991.78	Offsite-1st Floor	0.011530	0.002620
106	582728.25	4163991.31	Offsite-1st Floor	0.013240	0.002850
107	582713.02	4163994.89	Offsite-1st Floor	0.014780	0.002970
108	582700.03	4163996.34	Offsite-1st Floor	0.016720	0.003160
109	582682.40	4164008.33	Offsite-1st Floor	0.023930	0.003230
110	582650.31	4164020.43	Offsite-1st Floor	0.033780	0.002900
111	582641.60	4164031.18	Offsite-1st Floor	0.023080	0.002620
112	582635.53	4164045.51	Offsite-1st Floor	0.018450	0.002270
113	582626.12	4164060.29	Offsite-1st Floor	0.013460	0.001980
114	582622.99	4164075.97	Offsite-1st Floor	0.009100	0.001710
115	582618.06	4164091.65	Offsite-1st Floor	0.006710	0.001520
116	582618.06	4164108.22	Offsite-1st Floor	0.005040	0.001340
117	582619.40	4164121.66	Offsite-1st Floor	0.004130	0.001220
118	582619.40	4164138.68	Offsite-1st Floor	0.003350	0.001090
119	582621.20	4164152.12	Offsite-1st Floor	0.002880	0.001000
120	582621.20	4164166.90	Offsite-1st Floor	0.002490	0.000920
121	582622.99	4164183.02	Offsite-1st Floor	0.002150	0.000850
122	582622.54	4164199.60	Offsite-1st Floor	0.001880	0.000780
123	582625.67	4164213.03	Offsite-1st Floor	0.001690	0.000730
124	582654.34	4164208.11	Offsite-1st Floor	0.001600	0.000720
125	582656.13	4164190.64	Offsite-1st Floor	0.001810	0.000780
126	582654.79	4164176.75	Offsite-1st Floor	0.002030	0.000840
127	582656.24	4164161.52	Offsite-1st Floor	0.002310	0.000910
128	582652.55	4164144.05	Offsite-1st Floor	0.002760	0.001010
129	582651.21	4164130.17	Offsite-1st Floor	0.003220	0.001100
130	582650.78	4164115.39	Offsite-1st Floor	0.003870	0.001210
131	582648.88	4164102.40	Offsite-1st Floor	0.004680	0.001320
132	582653.00	4164091.34	Offsite-1st Floor	0.006640	0.001540
133	582665.09	4164057.18	Offsite-1st Floor	0.010040	0.001850
134	582698.69	4164071.49	Offsite-1st Floor	0.007270	0.001620
135	582670.02	4164083.58	Offsite-1st Floor	0.005750	0.001460
136	582671.36	4164102.40	Offsite-1st Floor	0.004210	0.001270
137	582671.36	4164115.39	Offsite-1st Floor	0.003530	0.001160
138	582673.15	4164130.17	Offsite-1st Floor	0.002940	0.001060
139	582674.95	4164144.50	Offsite-1st Floor	0.002510	0.000970
140	582675.84	4164160.63	Offsite-1st Floor	0.002160	0.000890
141	582678.53	4164175.41	Offsite-1st Floor	0.001890	0.000820
142	582679.87	4164191.98	Offsite-1st Floor	0.001660	0.000750
143	582679.43	4164207.21	Offsite-1st Floor	0.001500	0.000700
144	582707.20	4164188.85	Offsite-1st Floor	0.001570	0.000740
145	582706.30	4164175.86	Offsite-1st Floor	0.001730	0.000790
146	582705.85	4164157.94	Offsite-1st Floor	0.002000	0.000870
147	582704.51	4164143.60	Offsite-1st Floor	0.002280	0.000940
148	582703.61	4164128.82	Offsite-1st Floor	0.002660	0.001020
149	582702.27	4164112.70	Offsite-1st Floor	0.003220	0.001130
150	582698.58	4164100.16	Offsite-1st Floor	0.003840	0.001230
151	582698.69	4164094.48	Offsite-1st Floor	0.004850	0.001380
152	582698.69	4164089.70	Offsite-1st Floor	0.006150	0.001540
153	582696.45	4164054.02	Offsite-1st Floor	0.008130	0.001770
154	582696.45	4164036.79	Offsite-1st Floor	0.010420	0.002050
155	582694.65	4164023.11	Offsite-1st Floor	0.013280	0.002410
156	582714.81	4164021.32	Offsite-1st Floor	0.011190	0.002290
157	582717.50	4164038.79	Offsite-1st Floor	0.008700	0.001930
158	582718.84	4164053.12	Offsite-1st Floor	0.007000	0.001700
159	582719.29	4164067.46	Offsite-1st Floor	0.005620	0.001510
160	582721.53	4164080.45	Offsite-1st Floor	0.004590	0.001360
161	582723.32	4164097.47	Offsite-1st Floor	0.003600	0.001200
162	582724.22	4164112.25	Offsite-1st Floor	0.002980	0.001090
163	582723.77	4164127.03	Offsite-1st Floor	0.002530	0.001000
164	582726.01	4164142.26	Offsite-1st Floor	0.002150	0.000910
165	582728.70	4164157.04	Offsite-1st Floor	0.001870	0.000840
166	582728.59	4164174.06	Offsite-1st Floor	0.001630	0.000770
167	582730.49	4164188.40	Offsite-1st Floor	0.001460	0.000720
168	582761.40	4164170.48	Offsite-1st Floor	0.001530	0.000750
169	582760.05	4164152.12	Offsite-1st Floor	0.001780	0.000830
170	582757.81	4164136.44	Offsite-1st Floor	0.002070	0.000900
171	582757.38	4164118.97	Offsite-1st Floor	0.002460	0.001000
172	582756.57	4164105.08	Offsite-1st Floor	0.002890	0.001080
173	582753.33	4164097.17	Offsite-1st Floor	0.003620	0.001220
174	582750.65	4164072.83	Offsite-1st Floor	0.004400	0.001360
175	582750.65	4164056.95	Offsite-1st Floor	0.005270	0.001500
176	582749.30	4164042.37	Offsite-1st Floor	0.006570	0.001720
177	582747.96	4164026.70	Offsite-1st Floor	0.008010	0.001950
178	582769.91	4164017.74	Offsite-1st Floor	0.007530	0.001920
179	582771.70	4164031.18	Offsite-1st Floor	0.006460	0.001730
180	582771.25	4164047.75	Offsite-1st Floor	0.005350	0.001540
181	582773.49	4164063.43	Offsite-1st Floor	0.004390	0.001370
182	582775.28	4164077.76	Offsite-1st Floor	0.003670	0.001240
183	582775.73	4164092.09	Offsite-1st Floor	0.003100	0.001130
184	582776.62	4164105.98	Offsite-1st Floor	0.002650	0.001030
185	582777.52	4164122.10	Offsite-1st Floor	0.002240	0.000940
186	582781.10	4164136.89	Offsite-1st Floor	0.001920	0.000870
187	582781.55	4164150.32	Offsite-1st Floor	0.001710	0.000810
188	582552.33	4164242.81	Offsite-1st Floor	0.001720	0.000740
		Max		0.02378	0.00651

Attachment 3: Cumulative Risk Information and Calculations

BAAQMD RASTER Screening Data – Roadway PM_{2.5} Concentration Impacts at the
PM_{2.5} Concentration MEI



BAAQMD RASTER Screening Data – Roadway Hazard Index Impacts at the Cancer Risk MEI





BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

[Click here for guidance on conducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.](#)

[Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.](#)

Table A: Requester Contact Information

Date of Request	4/18/2023
Contact Name	Jordyn Bauer
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	jbauer@illingworthrodkin.com
Project Name	Centerpoint Industrial
Address	29469 Ruus Road, 1571-1593 Industrial Parkway West, 1601-1617 Industrial Parkway West
City	Pinole
County	Contra Costa
Type (residential, commercial, mixed use, industrial, etc.)	Industrial
Project Size (# of units or building square feet)	97,646
Comments:	

For Air District assistance, the following steps must be completed:

Table A

1. Complete all the contact and project information requested in **Table A**. Incomplete forms will not be processed. Please include a project site map.
2. Download and install the free program Google Earth, <http://www.google.com/earth/download/ge/>, and then download the county specific Google Earth stationary source application files from the District's website, <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>. The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.
3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.
4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth search box to confirm the source's address location. Please report any mapping errors to the District.
5. List the stationary source information in **Table B** - Use section only.
6. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.
7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov

Table B: Google Earth data											Project M Project MEI				
Distance from Receptor (feet) or MEI ¹	Plant No.	Facility Name	Address	Cancer Risk ²	Hazard Risk ²	PM _{2.5} ²	Source No. ³	Type of Source ⁴	Fuel Code ⁵	Status/Comments	Cancer Risk Distance Adjustment Multiplier	PM _{2.5} Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM _{2.5}
880/280	9764	ASM Autobody & Repair	29565 RUUS RD	-	0.004	-	-	Automotive Body Repair		2021 GIS Dataset	0.16	0.54	#VALUE!	0.001	#VALUE!
760/400	11366	Universal Auto Body & Repair	1551 Indstrial Pkwy West	-	0.002	-	-	Automotive Body Repair		2021 GIS Dataset	0.21	0.43	#VALUE!	0.0004	#VALUE!
+1000/570	15575	AAA Auto Repair Body & Paint	1421 Industrial Pkwy W	-	-	-	-	Automotive Body Repair		BAAQMD Public Request Data, BAAQMD Screening Calculator			0.03	0.00003	#VALUE!
800/175	19020	R F Autobody	29547 Ruus Rd # B	-	-	-	-	Automotive Body Repair		BAAQMD Public Request Data, BAAQMD Screening Calculator			0.01	0.00001	#VALUE!
880/280	19196	Bay Area Auto Body & Repair	29565 Ruus Rd Unit B	-	0.001	-	-	Automotive Body Repair		2021 GIS Dataset	0.16	0.54	#VALUE!	0.0002	#VALUE!
900/450	19304	V V Collision Center	29411 Ruus Road	-	-	-	-	Automotive Body Repair		BAAQMD Public Request Data, BAAQMD Screening Calculator			0.02	0.00002	#VALUE!
950/100	19778	Alameda County Public Works	29560 Ruus Road	35.367	0.016	0.044	-	Generator		2021 GIS Dataset	0.04	0.73	1.41	0.001	0.03
950/380	22112	Aya Auto Body Repair	29583 RUUS RD	-	0.003	-	-	Automotive Body Repair		2021 GIS Dataset	0.14	0.44	#VALUE!	0.0004	#VALUE!
750/130	22625	Destiny Auto Collision	29529 Ruus Rd	-	0.002	-	-	Automotive Body Repair		2021 GIS Dataset	0.21	0.73	#VALUE!	0.0004	#VALUE!
840/640	24480	Auto Collision Experts	29401 Ruus Road	-	-	-	-	Automotive Body Repair		BAAQMD Public Request Data, BAAQMD Screening Calculator			0.51	0.001	#VALUE!
630/300	105507	Bay Area Holdener Petroleum	1565 Industrial Pkwy W	3.615	0.016	-	-	Gas Dispensing Facility		BAAQMD Public Request Data, CARB GDF Screening Tool			0.66	0.10	-
750/130	200282	BG Autobody & Paint	29523 RUUS RD	-	-	-	-	Automotive Body Repair		BAAQMD Public Request Data, BAAQMD Screening Calculator			0.02	0.00002	#VALUE!
675/120	200328	Popeye Auto Collision #2	29501 RUUS RD	-	0.001	-	-	Automotive Body Repair		2021 GIS Dataset	0.25	0.75	#VALUE!	0.0002	#VALUE!

Footnotes:

1. Maximally exposed individual
2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
7. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
 - a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
 - b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less.
 - c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
 - d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should be factored in over a 70-year period.
 - e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Multiplier worksheet.
 - f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
 - g. This spray booth is considered to be insignificant.

Date last updated:
03/13/2018



Note: This tool can only be used for permitted facilities that are not gas stations.

Step 2: Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	300

Step 3: Enter Emissions Data	
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Chemical Name	CAS No.	Emission (lb/day)	Cancer (p 1,000,000)	Chronic (index)	Concentration (µg/m³)
Fine Particulate Matter (PM2.5)		0.00E+00			
1,1,1-Trichloroethane	71556				
1,1,1,2,2-Tetrachloroethane	79345				
1,1,2-Trichloroethane	79005				
1,1-Dichloroethane	75343				
1,1-Dichloroethylene	75354				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	335879				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	55673897				
1,2,3,4,7,8-Hexachlorodibenzofuran	39227286				
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857				
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743				
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764				
1,2,3,7,8-Pentachlorodibenzofuran	57117415				
1,2-Dibromo-3-chloropropane	96128				
1,2-Dibromoethane	106934				
1,2-Dichloroethane	107062				
1,2-Epoxybutane	106887				
1,3-Butadiene	106990				
1,3-Propane sulfone	1120714				
1,4-Dichlorobenzene	106467				
1,4-Dioxane	123911				
1,6-Dinitropyrene	42397648				
1,6-Hexamethylene Diisocyanate (monomer)	822060				
1,8-Dinitropyrene	42397659				
1-Nitropyrene	5522430				
2,3,4,4',5-PeCB	65590443				
2,3,4,4',5,5'-HxCB	62662776				
2,3,4,4',5-PeCB	31508006				
2,3,3',4,4',5'-HxCB	69782907				
2,3,3',4,4',5,5'-HpCB	39635319				
2,3,3',4,4',5-HxCB	38380084				
2,3,3',4,4'-PeCB	32598144				
2,3,4,4',5-PeCB	74472370				
2,3,4,6,7,8-Hexachlorodibenzofuran	60851346				
2,3,4,7,8-Pentachlorodibenzofuran	57117314				
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compo	1746016				
2,3,7,8-Tetrachlorodibenzofuran	51207319				
2,4,6-Trichlorophenol	88062				
2,4-Diaminobenzene	615054				
2,4-Diaminotoluene	95807				
2,4-Dinitrotoluene	121142				
2-Aminonaphthalene	117793				
2-Nitrofluorene	607578				
3,3',4,4',5,5'-HxCB	32774166				
3,3',4,4',5-PeCB	57465288				
3,3',4,4'-TCB	32598133				
3,3-Dichlorobenzidine	91941				
3,4,4',5-TCB	70362504				
3-Methylcholanthrene	56495				
4,4-Methylene bis(2-chloroaniline)	101144				
4,4-Methylenedianiline	101779				
4-Chloro-ortho-phenylenediamine	95830				
4-Dimethylaminobenzene	60117				
4-Nitropyrene	57835924				
5-Methylchrysene	3697243				
5-Nitroacenaphthene	602879				
6-Nitrochrysene	7496028				
7,12-Dimethylbenz[a]anthracene	57976				
7H-dibenzo[c,g]carbazole	194592				
Acetaldehyde	75070				
Acetamide	60355				
Acrolein	107028				
Acrylamide	79061				
Acrylic Acid	79107				
Acrylonitrile	107131				
Allyl chloride	107051				
Ammonia	7664417				
Aniline	62533				
Arsenic	7440382				
Arsine	7784421				
Asbestos [1/(100 PCM fibers/m³)] ¹ -1	1332214				
Benzo[a]anthracene	56553				
Benzene	71432				
Benzidine	92875				
Benzo[a]pyrene	50328				
Benzo[b]fluoranthene	205992				
Benzo[k]fluoranthene	205823				
Benzo[a]fluoranthene	207089				
Benzyl Chloride	100447				
Beryllium	7440417				
Bis(2-chloroethyl) Ether	111444				
Bis(2-chloromethyl) Ether	542881				
Cadmium	7440439				
Caprolactam	305602				
Carbon Dioxide	75150				
Carbon Monoxide	630080				
Carbon Tetrachloride	56235				
Carbonyl Sulfide	463581				
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262				
Chlorine	7782505				
Chlorine Dioxide	10049044				
Chlorite	7758192				
Chlorobenzene	108907				
Chlorodibromomethane	124481				
Chloroethane (Ethyl Chloride)	75003				
Chloroform	67663				
Chloropicrin	76062				
Chromic Trioxide	1333820				
Chromium-hexavalent	18540299				
Barium chromate	10294403				
Calcium chromate	13765190				
Lead chromate	7758976				
Sodium dichromate	10588019				
Strontium chromate	7789062				

Step 4: Specify Source Type	
Does facility have only diesel backup generators?	no

Note: On-road generators, diesel engines, and diesel generators are not generators.

Step 5: Record the Estimates	
Cancer Risk	0.027 per 1,000,000
Chronic Hazard	0.000
PM2.5 Concentration	0.000 µg/m³

Zinc chromate	13530659			
CHROMIC TRIOXIDE (as chromic acid mist)	1333820			
Chrysene	218019			
Cobalt	7440484			
Copper	7440508			
Copper and Copper Compounds	7440508			
Cresol Mixtures	1319773			
Cupferron	135206			
Cyanide	57125			
DI(2-ethylhexyl)phthalate	117817			
Dibenz(a,h)acridine	226368			
Dibenz(a,h)anthracene	53703			
Dibenz(a,j)acridine	234420			
Dibenz(a,l)pyrene	192654			
Dibenzo(a,h)pyrene	189640			
Dibenzo(a,i)pyrene	189559			
Dibenzo(a,j)pyrene	191300			
Diesel Exhaust Particulate	85105			
Diethanolamine	111422			
Dimethylformamide	68122			
Direct Black 38 (Technical Grade)	1937377			
Direct Blue 6 (Technical Grade)	2602462			
Direct Brown 95 (Technical Grade)	16071866			
Epichlorohydrin	106898			
Ethylbenzene	100414			
Ethylene Glycol	107211			
Ethylene Glycol Monobutyl Ether	111762			
Ethylene Glycol Monoethyl Ether	110805			
Ethylene Glycol Monoethyl Ether Acetate	111159			
Ethylene Glycol Monomethyl Ether	109864			
Ethylene Glycol Monomethyl Ether Acetate	110496			
Ethylene Oxide	75218			
Ethylene Thiourea	96457			
Fluorides	1101			
Formaldehyde (gas)	50000			
Glutaraldehyde	111308			
Hexachlorobenzene	118741			
Hexachlorocyclohexane (Technical Grade)	608731			
Hexachlorocyclohexane-Alpha Isomer	319846			
Hexachlorocyclohexane- Beta Isomer	319857			
Hexachlorocyclohexane- Gamma Isomer	58899			
Hydrazine	302012			
Hydrogen Chloride	7647010			
Hydrogen Cyanide	74908			
Hydrogen Fluoride	7664193			
Hydrogen Selenide	7783075			
Hydrogen Sulfide	7783064			
Indeno[1,2-3-c-d]pyrene	319395			
Isothorone	78591			
Isopropyl Alcohol	67630	2.68E-02	7.25E-06	
Lead Acetate	301042			
Lead and Lead Compounds	7439921			
Lead Phosphate	7446277			
Lead Subacetate	1335326			
m-CRESOL	108394			
m-XYLENE	108183			
Maleic Anhydride	108116			
Manganese & Manganese Compounds	7439965			
Mercury (Inorganic)	7439976			
Mercuric chloride	7487947			
Methanol	67561			
Methyl Bromide	74839			
Methyl Ethyl Ketone	78933			
Methyl Isocyanate	624839			
Methyl Tertiary Butyl Ether	1634044			
Methylene Chloride (Dichloromethane)	75602			
Methylene Diphenyl Isocyanate (MDI)	101688			
Michlers Ketone	90948			
n-Hexane	110543			
n-Nitroso-n-methylethylamine	10595956			
n-Nitrosodi-n-Butylamine	924163			
n-Nitrosodi-n-Propylamine	621647			
n-Nitrosodimethylamine	55185			
n-Nitrosodimethylamine	62759			
n-Nitrosodiphenylamine	86306			
n-Nitrosomorpholine	59892			
n-Nitrosopiperidine	100754			
n-Nitrosopyrrolidine	930552			
Naphthalene	91203			
Nickel and Nickel Compounds	7440020			
Nickel acetate	373024			
Nickel carbonate	13338373			
Nickel carbonyl	13463393			
Nickel hydroxide	12054487			
Nickelocene	1271289			
Nickel Oxide	1313991			
Nickel Refinery Dust	1146			
Nickel Subsulfide	12035722			
Nitric Acid	7697372			
Nitrogen Dioxide	10102440			
o-CRESOL	95487			
o-XYLENE	95476			
Oleum	8014957			
Ozone	10028156			
p-Chloro-o-toluidine	95692			
p-Cresidine	120718			
p-CRESOL	106445			
p-Nitrosodiphenylamine	136105			
p-XYLENE	106423			
Pentachlorophenol	87865			
Perchloroethylene	127184			
Phenol	108952			
Phosgene	75445			
Phosphine	7803512			
Phosphoric Acid	7664382			
Phthalic Anhydride	85449			
Polychlorinated Biphenyls	1336363			
Potassium Bromate	7758012			
Propylene	115071			
Propylene Glycol Monomethyl Ether	107982			
Propylene oxide	75569			
Selenium	7782492			
Selenium sulfide	7446346			
Silica (crystalline, respirable)	7633869			
Sodium hydroxide	1310732			
Styrene	100425			
Sulfates	9960			
Sulfur Dioxide	7446095			
Sulfuric Acid	7664939			
Sulfur Trioxide	7446719			
Tertiary-butyl acetate	540885	3.45E-02	2.07E-01	
Tetrachloroethylene	127184			
Thioacetamide	62555			
Toluene	108883	3.84E-02	1.73E-04	
Toluene Diisocyanates	26471625			
Toluene Diisocyanates (2,4 and 2, 6)	584849			
Toluene Diisocyanates (2,4 and 2, 6)	91087			
Trichloroethylene	79016			

Triethylamine	121448					
Urethane	51796					
Vanadium pentoxide	1314621					
Vinyl acetate	108054					
Vinyl chloride	75014					
Xylenes (technical mixture of m, o, p-isomers)	1330207	2.68E-02	7.25E-05			
Vanadium	7440622					
TOTAL UNADJUSTED Risk Values		0.207	0.000	0.000		



Note: This tool can only be used for permitted facilities that are not gas stations.

Step 2: Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	245

Step 3: Enter Emissions Data	
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Chemical Name	CAS No.	Emission (lb/day)	Cancer (p 1,000,000)	Chronic (index)	Concentration (µg/m³)
Fine Particulate Matter (PM2.5)		0.00E+00			
1,1,1-Trichloroethane	71556				
1,1,2,2-Tetrachloroethane	79345				
1,1,2-Trichloroethane	79005				
1,1-Dichloroethane	75343				
1,1-Dichloroethylene	75354				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	236879				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	55673897				
1,2,3,4,7,8-Hexachlorodibenzofuran	39227286				
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857				
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743				
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764				
1,2,3,7,8-Pentachlorodibenzofuran	57117416				
1,2-Dibromo-3-chloropropane	96128				
1,2-Dibromoethane	106934				
1,2-Dichloroethane	107062				
1,2-Epoxybutane	106887				
1,3-Butadiene	106990				
1,3-Propane sulfone	1120714				
1,4-Dichlorobenzene	106467				
1,4-Dioxane	123911				
1,6-Dinitropyrene	42397648				
1,6-Hexamethylene Diisocyanate (monomer)	822060				
1,8-Dinitropyrene	42397659				
1-Nitropyrene	5522430				
2,3,4,4',5-PeCB	65590443				
2,3,4,4',5,5'-HxCB	62662776				
2,3,4,4',5-PeCB	31508006				
2,3,3',4,4',5'-HxCB	69782907				
2,3,3',4,4',5,5'-HpCB	39635319				
2,3,3',4,4',5-HxCB	38380084				
2,3,3',4,4'-PeCB	32598144				
2,3,4,4',5-PeCB	74472370				
2,3,4,6,7,8-Hexachlorodibenzofuran	60851346				
2,3,4,7,8-Pentachlorodibenzofuran	57117314				
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compo	1746016				
2,3,7,8-Tetrachlorodibenzofuran	51207319				
2,4,6-Trichlorophenol	88062				
2,4-Diaminonitrobenzene	615054				
2,4-Diaminotoluene	95807				
2,4-Dinitrotoluene	121142				
2-Aminonaphthalene	117793				
2-Nitrofluorene	607578				
3,3',4,4',5,5'-HxCB	32774166				
3,3',4,4',5-PeCB	57465288				
3,3',4,4'-TCB	32598133				
3,3-Dichlorobenzidine	91941				
3,4,4',5'-TCB	70362504				
3-Methylcholanthrene	56495				
4,4-Methylene bis(2-chloroaniline)	101144				
4,4-Methylenedianiline	101779				
4-Chloro-ortho-phenylenediamine	95830				
4-Dimethylaminobenzene	60117				
4-Nitropyrene	57835924				
5-Methylchrysene	3697243				
5-Nitroacenaphthene	602879				
6-Nitrochrysene	7496028				
7,12-Dimethylbenz[a]anthracene	57976				
7H-dibenzo[c,g]carbazole	194592				
Acetaldehyde	75070				
Acetamide	60355				
Acrolein	107028				
Acrylamide	79061				
Acrylic Acid	79107				
Acrylonitrile	107131				
Allyl chloride	107051				
Ammonia	7664417				
Aniline	62533				
Arsenic	7440382				
Arsine	7784421				
Asbestos [1/(100 PCM fibers/m³)]¹-¹	1332214				
Benzo[a]anthracene	56553				
Benzene	71432				
Benzidine	92875				
Benzo[a]pyrene	50328				
Benzo[b]fluoranthene	205992				
Benzo[k]fluoranthene	205823				
Benzo[a]fluoranthene	207089				
Benzyl Chloride	100447				
Beryllium	7440417				
Bis(2-chloroethyl) Ether	111444				
Bis(2-chloromethyl) Ether	542881				
Cadmium	7440439				
Caprolactam	305602				
Carbon Disulfide	75150				
Carbon Monoxide	630080				
Carbon Tetrachloride	56235				
Carbonyl Sulfide	463581				
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262				
Chlorine	7782505				
Chlorine Dioxide	10049044				
Chlorite	7758192				
Chlorobenzene	108907				
Chlorodibromomethane	124481				
Chloroethane (Ethyl Chloride)	75003				
Chloroform	67663				
Chloropicrin	76062				
Chromic Trioxide	1333820				
Chromium-hexavalent	18540299				
Barium chromate	10294403				
Calcium chromate	13765190				
Lead chromate	7758976				
Sodium dichromate	10588019				
Strontium chromate	7789062				

Step 4: Specify Source Type	
Does facility have only diesel backup generators?	no

Note: On-road generators, diesel engines used if source is not a generator.

Step 5: Record the Estimates	
Cancer Risk	0.008 per 1,000,000
Chronic Hazard	0.000
PM2.5 Concentration	0.000 µg/m³

Zinc chromate	13530659			
CHROMIC TRIOXIDE (as chromic acid mist)	1333820			
Chrysene	218019			
Cobalt	7440484			
Copper	7440508			
Copper and Copper Compounds	7440508			
Cresol Mixtures	1319773			
Cupferron	135206			
Cyanide	57125			
DI(2-ethylhexyl)phthalate	117817			
Dibenz(a,h)acridine	226368			
Dibenz(a,h)anthracene	53703			
Dibenz(a,j)acridine	234420			
Dibenz(a,l)pyrene	192654			
Dibenzo(a,h)pyrene	189640			
Dibenzo(a,i)pyrene	189559			
Dibenzo(a,j)pyrene	191300			
Diesel Exhaust Particulate	85105			
Diethanolamine	111422			
Dimethylformamide	68122			
Direct Black 38 (Technical Grade)	1937377			
Direct Blue 6 (Technical Grade)	2602462			
Direct Brown 95 (Technical Grade)	16071866			
Epichlorohydrin	106898			
Ethylbenzene	100414			
Ethylene Glycol	107211			
Ethylene Glycol Monobutyl Ether	111762			
Ethylene Glycol Monoethyl Ether	110805			
Ethylene Glycol Monoethyl Ether Acetate	111159			
Ethylene Glycol Monomethyl Ether	109864			
Ethylene Glycol Monomethyl Ether Acetate	110496			
Ethylene Oxide	75218			
Ethylene Thiourea	96457			
Fluorides	1101			
Formaldehyde (gas)	50000			
Glutaraldehyde	111308			
Hexachlorobenzene	118741			
Hexachlorocyclohexane (Technical Grade)	608731			
Hexachlorocyclohexane-Alpha Isomer	319846			
Hexachlorocyclohexane-Beta Isomer	319857			
Hexachlorocyclohexane-Gamma Isomer	58899			
Hydrazine	302012			
Hydrogen Chloride	7647010			
Hydrogen Cyanide	74908			
Hydrogen Fluoride	7664193			
Hydrogen Selenide	7783075			
Hydrogen Sulfide	7783064			
Indeno[1,2-3-c-d]pyrene	319395			
Isothorone	78591			
Isopropyl Alcohol	67630	5.37E-03	1.45E-06	
Lead Acetate	301042			
Lead and Lead Compounds	7439921			
Lead Phosphate	7446277			
Lead Subacetate	1335326			
m-CRESOL	108394			
m-XYLENE	108183			
Maleic Anhydride	108116			
Manganese & Manganese Compounds	7439965			
Mercury (Inorganic)	7439976			
Mercuric chloride	7487947			
Methanol	67561			
Methyl Bromide	74839			
Methyl Ethyl Ketone	78933			
Methyl Isocyanate	624839			
Methyl Tertiary Butyl Ether	1634044			
Methylene Chloride (Dichloromethane)	75602			
Methylene Diphenyl Isocyanate (MDI)	101688			
Michlers Ketone	90948			
n-Hexane	110543			
n-Nitroso-n-methylethylamine	10595956			
n-Nitrosodi-n-Butylamine	924163			
n-Nitrosodi-n-Propylamine	621647			
n-Nitrosodimethylamine	55185			
n-Nitrosodimethylamine	62759			
n-Nitrosodiphenylamine	86306			
n-Nitrosomorpholine	59892			
n-Nitrosopiperidine	100754			
n-Nitrosopyrrolidine	930552			
Naphthalene	91203			
Nickel and Nickel Compounds	7440020			
Nickel acetate	373024			
Nickel carbonate	13338373			
Nickel carbonyl	13463393			
Nickel hydroxide	12054487			
Nickelocene	1271289			
Nickel Oxide	1313991			
Nickel Refinery Dust	1146			
Nickel Subsulfide	12035722			
Nitric Acid	7697372			
Nitrogen Dioxide	10102440			
o-CRESOL	95487			
o-XYLENE	95476			
Oleum	8014957			
Ozone	10028156			
p-Chloro-o-toluidine	95692			
p-Cresidine	120718			
p-CRESOL	106445			
p-Nitrosodiphenylamine	136105			
p-XYLENE	106423			
Pentachlorophenol	87865			
Perchloroethylene	127184			
Phenol	108952			
Phosgene	75445			
Phosphine	7803512			
Phosphoric Acid	7664382			
Phthalic Anhydride	85449			
Polychlorinated Biphenyls	1336363			
Potassium Bromate	7758012			
Propylene	115071			
Propylene Glycol Monomethyl Ether	107982			
Propylene oxide	75569			
Selenium	7782492			
Selenium sulfide	7446346			
Silica (crystalline, respirable)	7633869			
Sodium hydroxide	1310732			
Styrene	100425			
Sulfates	9960			
Sulfur Dioxide	7446095			
Sulfuric Acid	7664939			
Sulfur Trioxide	7446719			
Tertiary-butyl acetate	540885	6.90E-03	4.15E-02	
Tetrachloroethylene	127184			
Thioacetamide	62555			
Toluene	108883	7.67E-03	3.45E-05	
Toluene Diisocyanates	26471625			
Toluene Diisocyanates (2,4 and 2, 6)	584849			
Toluene Diisocyanates (2,4 and 2, 6)	91087			
Trichloroethylene	79016			

Triethylamine	121448					
Urethane	51796					
Vanadium pentoxide	1314621					
Vinyl acetate	108054					
Vinyl chloride	75014					
Xylenes (technical mixture of m, o, p-isomers)	1330207	5.37E-03	1.45E-05			
Vanadium	7440622					
TOTAL UNADJUSTED Risk Values		0.041	0.000	0.000		



Note: This tool can only be used for permitted facilities that are not gas stations.

Step 1:	
Plant Name	19304
Plant No.	V V Collision Center

Step 2:	
Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	275

Step 3:	
Enter Emissions Data	

Chemical Name	CAS No.	Emission (lb/day)	Cancer (p 1,000,000)	Chronic (index)	Concentration (µg/m³)
Fine Particulate Matter (PM2.5)		0.00E+00			
1,1,1-Trichloroethane	71556				
1,1,2,2-Tetrachloroethane	79345				
1,1,2-Trichloroethane	79005				
1,1-Dichloroethane	75343				
1,1-Dichloroethylene	75354				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	236879				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	55673897				
1,2,3,4,7,8-Hexachlorodibenzofuran	39227286				
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857				
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743				
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764				
1,2,3,7,8-Pentachlorodibenzofuran	57117416				
1,2-Dibromo-3-chloropropane	96128				
1,2-Dibromoethane	106934				
1,2-Dichloroethane	107062				
1,2-Epoxybutane	106887				
1,3-Butadiene	106990				
1,3-Propane sulfone	1120714				
1,4-Dichlorobenzene	106467				
1,4-Dioxane	123911				
1,6-Dinitropropene	42397648				
1,6-Hexamethylene Diisocyanate (monomer)	822060				
1,8-Dinitropropene	42397659				
1-Nitropropene	5522430				
2,3,4,4',5-PeCB	65590443				
2,3,4,4',5,5'-HxCB	62662776				
2,3,4,4',5-PeCB	31508006				
2,3,3',4,4',5'-HxCB	69782907				
2,3,3',4,4',5,5'-HpCB	39635319				
2,3,3',4,4',5-HxCB	38380084				
2,3,3',4,4'-PeCB	32598144				
2,3,4,4',5-PeCB	74472370				
2,3,4,6,7,8-Hexachlorodibenzofuran	60851346				
2,3,4,7,8-Pentachlorodibenzofuran	57117314				
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compo	1746016				
2,3,7,8-Tetrachlorodibenzofuran	51207319				
2,4,6-Trichlorophenol	88062				
2,4-Diaminobenzene	615054				
2,4-Diaminotoluene	95807				
2,4-Dinitrotoluene	121142				
2-Aminonaphthalene	117793				
2-Nitrofluorene	607578				
3,3',4,4',5,5'-HxCB	32774166				
3,3',4,4',5-PeCB	57465288				
3,3',4,4'-TCB	32598133				
3,3-Dichlorobenzidine	91941				
3,4,4',5'-TCB	70362504				
3-Methylcholanthrene	56495				
4,4-Methylene bis(2-chloroaniline)	101144				
4,4-Methylenedianiline	101779				
4-Chloro-ortho-phenylenediamine	95830				
4-Dimethylaminobenzene	60117				
4-Nitropropene	57835924				
5-Methylchrysene	3697243				
5-Nitroacenaphthene	602879				
6-Nitrochrysene	7496028				
7,12-Dimethylbenz[a]anthracene	57976				
7H-dibenzofuro[2,3-b]carbazole	194592				
Acetaldehyde	75070				
Acetamide	60355				
Acrolein	107028				
Acrylamide	79061				
Acrylic Acid	79107				
Acrylonitrile	107131				
Allyl chloride	107051				
Ammonia	7664417				
Aniline	62533				
Arsenic	7440382				
Arsine	7784421				
Asbestos [1/(100 PCM fibers/m³)] ¹ -1	1332214				
Benzo[a]anthracene	56553				
Benzene	71432				
Benzidine	92875				
Benzo[a]pyrene	50328				
Benzo[b]fluoranthene	205292				
Benzo[k]fluoranthene	205823				
Benzo[a]fluoranthene	207089				
Benzyl Chloride	100447				
Beryllium	7440417				
Bis(2-chloroethyl) Ether	111444				
Bis(2-chloromethyl) Ether	542881				
Cadmium	7440439				
Caprolactam	305602				
Carbon Disulfide	75150				
Carbon Monoxide	630080				
Carbon Tetrachloride	56235				
Carbonyl Sulfide	463581				
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262				
Chlorine	7782505				
Chlorine Dioxide	10049044				
Chlorite	7758192				
Chlorobenzene	108907				
Chlorodibromomethane	124481				
Chloroethane (Ethyl Chloride)	75003				
Chloroform	67663				
Chloropicrin	76062				
Chromic Trioxide	1333820				
Chromium-hexavalent	18540299				
Barium chromate	10294403				
Calcium chromate	13765190				
Lead chromate	7758976				
Sodium dichromate	10588019				
Strontium chromate	7789062				

Step 4:	
Specify Source Type	
Does facility have only diesel backup generators?	no

Note: On-road generators, diesel engines used if source is not a generator.

Step 5:	
Record the Estimates	
Cancer Risk	0.017 per 1,000,000
Chronic Hazard	0.000
PM2.5 Concentration	0.000 µg/m³

Zinc chromate	13530659
CHROMIC TRIOXIDE (as chromic acid mist)	1333820
Chrysene	218019
Cobalt	7440484
Copper	7440508
Copper and Copper Compounds	7440508
Cresol Mixtures	1319773
Cupferron	135206
Cyanide	57125
DI(2-ethylhexyl)phthalate	117817
Dibenz(a,h)acridine	226368
Dibenz(a,h)anthracene	53703
Dibenz(a,j)acridine	234420
Dibenz(a,l)pyrene	192654
Dibenz(a,h)pyrene	189640
Dibenz(a,i)pyrene	189559
Dibenz(a,j)pyrene	191300
Diesel Exhaust Particulate	85105
Diethanolamine	111422
Dimethylformamide	68122
Direct Black 38 (Technical Grade)	1937377
Direct Blue 6 (Technical Grade)	2602462
Direct Brown 95 (Technical Grade)	16071866
Epichlorohydrin	106898
Ethylbenzene	100414
Ethylene Glycol	107211
Ethylene Glycol Monobutyl Ether	111762
Ethylene Glycol Monoethyl Ether	110805
Ethylene Glycol Monoethyl Ether Acetate	111159
Ethylene Glycol Monomethyl Ether	109864
Ethylene Glycol Monomethyl Ether Acetate	110496
Ethylene Oxide	75218
Ethylene Thiourea	96457
Fluorides	1101
Formaldehyde (gas)	50000
Glutaraldehyde	111308
Hexachlorobenzene	118741
Hexachlorocyclohexane (Technical Grade)	608731
Hexachlorocyclohexane-Alpha Isomer	319846
Hexachlorocyclohexane- Beta Isomer	319857
Hexachlorocyclohexane- Gamma Isomer	58899
Hydrazine	302012
Hydrogen Chloride	7647010
Hydrogen Cyanide	74908
Hydrogen Fluoride	7664393
Hydrogen Selenide	7783075
Hydrogen Sulfide	7783064
Indeno[1,2-3-c-d]pyrene	139395
Isothorone	78591
Isopropyl Alcohol	67630
Lead Acetate	301042
Lead and Lead Compounds	7439921
Lead Phosphate	7446277
Lead Subacetate	1335326
m-CRESOL	108394
m-XYLENE	108383
Maleic Anhydride	108116
Manganese & Manganese Compounds	7439965
Mercury (Inorganic)	7439976
Mercuric chloride	7487947
Methanol	67561
Methyl Bromide	74839
Methyl Ethyl Ketone	78933
Methyl Isocyanate	624839
Methyl Tertiary Butyl Ether	1634044
Methylene Chloride (Dichloromethane)	75602
Methylene Diphenyl Isocyanate (MDI)	101688
Michlers Ketone	90948
n-Hexane	110543
n-Nitroso-n-methylethylamine	10595956
n-Nitrosodi-n-Butylamine	924163
n-Nitrosodi-n-Propylamine	621647
n-Nitrosodiethylamine	55185
n-Nitrosodimethylamine	62759
n-Nitrosodiphenylamine	86306
n-Nitrosomorpholine	59892
n-Nitrosopiperidine	100754
n-Nitrosopyrrolidine	930552
Naphthalene	91203
Nickel and Nickel Compounds	7440020
Nickel acetate	373224
Nickel carbonate	1333873
Nickel carbonyl	13463393
Nickel hydroxide	12054487
Nickelocene	1271289
Nickel Oxide	1313991
Nickel Refinery Dust	1146
Nickel Subsulfide	12035722
Nitric Acid	7697372
Nitrogen Dioxide	10102440
o-CRESOL	95487
o-XYLENE	95476
Oleum	8014957
Ozone	10028156
p-Chloro-o-toluidine	95692
p-Cresidine	120718
p-CRESOL	106445
p-Nitrosodiphenylamine	136105
p-XYLENE	106423
Pentachlorophenol	87865
Perchloroethylene	127184
Phenol	108952
Phosgene	75445
Phosphine	7803512
Phosphoric Acid	7664382
Phthalic Anhydride	96449
Polychlorinated Biphenyls	1336363
Potassium Bromate	7758012
Propylene	115071
Propylene Glycol Monomethyl Ether	107982
Propylene oxide	75569
Selenium	7782492
Selenium sulfide	7446346
Silica (crystalline, respirable)	7633869
Sodium hydroxide	1310732
Styrene	100425
Sulfates	9960
Sulfur Dioxide	7446095
Sulfuric Acid	7664939
Sulfur Trioxide	7446719
Tertiary-butyl acetate	540885
Tetrachloroethylene	127184
Thioacetamide	62555
Toluene	108883
Toluene Diisocyanates	26471625
Toluene Diisocyanates (2,4 and 2, 6)	584849
Toluene Diisocyanates (2,4 and 2, 6)	91087
Trichloroethylene	79016

1.84E-02

1.10E-01

Triethylamine	121448					
Urethane	51796					
Vanadium pentoxide	1314621					
Vinyl acetate	108054					
Vinyl chloride	75014					
Xylenes (technical mixture of m, o, p-isomers)	1330207	4.85E-02	1.31E-04			
Vanadium	7440522					
TOTAL UNADJUSTED Risk Values		0.110	0.000	0.000		



Note: This tool can only be used for permitted facilities that are not gas stations.

Step 1:	
Plant Name	24480
Plant No.	Auto Collision Experts

Step 2:	
Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	255

Step 3:	
Enter Emissions Data	

Chemical Name	CAS No.	Emission (lb/day)	Cancer (p 1,000,000)	Chronic (index)	Concentration (µg/m³)
Fine Particulate Matter (PM2.5)		0.00E+00			
1,1,1-Trichloroethane	71556				
1,1,2,2-Tetrachloroethane	79345				
1,1,2-Trichloroethane	79005				
1,1-Dichloroethane	75343				
1,1-Dichloroethylene	75354				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	335879				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394				
1,2,3,4,7,8-Heptachlorodibenzofuran	55673897				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227286				
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857				
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743				
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764				
1,2,3,7,8-Pentachlorodibenzofuran	57117415				
1,2-Dibromo-3-chloropropane	96128				
1,2-Dibromoethane	106934				
1,2-Dichloroethane	107062				
1,2-Epoxybutane	106887				
1,3-Butadiene	106990				
1,3-Propane sulfone	1120714				
1,4-Dichlorobenzene	106467				
1,4-Dioxane	123911				
1,6-Dinitropyrene	42397648				
1,6-Hexamethylene Diisocyanate (monomer)	822060				
1,8-Dinitropyrene	42397659				
1-Nitropyrene	5522430				
2,3,4,4',5-PeCB	65590443				
2,3',4',5,5'-HxCB	62662776				
2,3',4',5-PeCB	31508006				
2,3,3',4,4',5'-HxCB	69782907				
2,3,3',4,4',5,5'-HpCB	39635319				
2,3,3',4,4',5-HxCB	38380084				
2,3,3',4,4'-PeCB	32598144				
2,3,4,4',5-PeCB	74472370				
2,3,4,6,7,8-Hexachlorodibenzofuran	60851346				
2,3,4,7,8-Pentachlorodibenzofuran	57117314				
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compo	1746016				
2,3,7,8-Tetrachlorodibenzofuran	51207319				
2,4,6-Trichlorophenol	88062				
2,4-Diaminonitrobenzene	615054				
2,4-Diaminotoluene	95807				
2,4-Dinitrotoluene	121142				
2-Aminonaphthalene	117793				
2-Nitrofluorene	607578				
3,3',4,4',5,5'-HxCB	32774166				
3,3',4,4',5-PeCB	57465288				
3,3',4,4'-TCB	32598133				
3,3-Dichlorobenzidine	91941				
3,4,4',5-TCB	70362504				
3-Methylcholanthrene	56495				
4,4-Methylene bis(2-chloroaniline)	101144				
4,4-Methylenedianiline	101779				
4-Chloro-ortho-phenylenediamine	95830				
4-Dimethylaminobenzene	60117				
4-Nitropyrene	57835924				
5-Methylchrysene	3697243				
5-Nitroacenaphthene	602879				
6-Nitrochrysene	7496028				
7,12-Dimethylbenz[a]anthracene	57976				
7H-dibenzo[c,g]carbazole	194592				
Acetaldehyde	75070				
Acetamide	60355				
Acrolein	107028				
Acrylamide	79061				
Acrylic Acid	79107				
Acrylonitrile	107131				
Allyl chloride	107051				
Ammonia	7664417				
Aniline	62533				
Arsenic	7440382				
Arsine	7784421				
Asbestos [1/(100 PCM fibers/m³)] ¹ -1	1332214				
Benzo[a]anthracene	56553				
Benzene	71432				
Benzidine	92875				
Benzo[a]pyrene	50328				
Benzo[b]fluoranthene	205992				
Benzo[k]fluoranthene	205823				
Benzo[a]fluoranthene	207089				
Benzyl Chloride	100447				
Beryllium	7440417				
Bis(2-chloroethyl) Ether	111444				
Bis(2-chloromethyl) Ether	542881				
Cadmium	7440439				
Caprolactam	305602				
Carbon Disulfide	75150				
Carbon Monoxide	630080				
Carbon Tetrachloride	56235				
Carbonyl Sulfide	463581				
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262				
Chlorine	7782505				
Chlorine Dioxide	10049044				
Chlorite	7758192				
Chlorobenzene	108907				
Chlorodibromomethane	124481				
Chloroethane (Ethyl Chloride)	75003				
Chloroform	67663				
Chloropicrin	76062				
Chromic Trioxide	1333820				
Chromium-hexavalent	18540299				
Barium chromate	10294403				
Calcium chromate	13765190				
Lead chromate	7758976				
Sodium dichromate	10588019				
Strontium chromate	7789062				

Step 4:	
Specify Source Type	
Does facility have only diesel backup generators?	no

Note: On-road generators, diesel engines used if source is not a generator.

Step 5:		
Record the Estimates		
Cancer Risk	0.512	per 1,000,000
Chronic Hazard	0.001	
PM2.5 Concentration	0.000	µg/m³

Zinc chromate	13530659			
CHROMIC TRIOXIDE (as chromic acid mist)	1333820			
Chrysene	218019			
Cobalt	7440484			
Copper	7440508			
Copper and Copper Compounds	7440508			
Cresol Mixtures	1319773			
Cupferron	135206			
Cyanide	57125			
DI(2-ethylhexyl)phthalate	117817			
Dibenz(a,h)acridine	226368			
Dibenz(a,h)anthracene	53703			
Dibenz(a,j)acridine	234420			
Dibenz(a,l)pyrene	192654			
Dibenzo(a,h)pyrene	189640			
Dibenzo(a,l)pyrene	189559			
Dibenzo(a,i)pyrene	191300			
Diesel Exhaust Particulate	85105			
Diethanolamine	111422			
Dimethylformamide	68122			
Direct Black 38 (Technical Grade)	1937377			
Direct Blue 6 (Technical Grade)	2602462			
Direct Brown 95 (Technical Grade)	16071866			
Epichlorohydrin	106898			
Ethylbenzene	100414			
Ethylene Glycol	107211			
Ethylene Glycol Monobutyl Ether	111762			
Ethylene Glycol Monoethyl Ether	110805			
Ethylene Glycol Monoethyl Ether Acetate	111159			
Ethylene Glycol Monomethyl Ether	109864			
Ethylene Glycol Monomethyl Ether Acetate	110496			
Ethylene Oxide	75218			
Ethylene Thiourea	96457			
Fluorides	1101			
Formaldehyde (gas)	50000			
Glutaraldehyde	111308			
Hexachlorobenzene	118741			
Hexachlorocyclohexane (Technical Grade)	608731			
Hexachlorocyclohexane-Alpha Isomer	319846			
Hexachlorocyclohexane-Beta Isomer	319857			
Hexachlorocyclohexane-Gamma Isomer	58899			
Hydrazine	302012			
Hydrogen Chloride	7647010			
Hydrogen Cyanide	74908			
Hydrogen Fluoride	7664193			
Hydrogen Selenide	7783075			
Hydrogen Sulfide	7783064			
Indeno[1,2-3-c-d]pyrene	319395			
Isothorone	78591			
Isopropyl Alcohol	67630			
Lead Acetate	301042			
Lead and Lead Compounds	7439921			
Lead Phosphate	7446277			
Lead Subacetate	1335326			
m-CRESOL	108394			
m-XYLENE	108183			
Maleic Anhydride	108116			
Manganese & Manganese Compounds	7439965			
Mercury (Inorganic)	7439976			
Mercuric chloride	7487947			
Methanol	67561			
Methyl Bromide	74839			
Methyl Ethyl Ketone	78933			
Methyl Isocyanate	624839			
Methyl Tertiary Butyl Ether	1634044			
Methylene Chloride (Dichloromethane)	75602			
Methylene Diphenyl Isocyanate (MDI)	101688			
Michlers Ketone	90948			
n-Hexane	110543			
n-Nitroso-n-methylethylamine	10595956			
n-Nitrosodi-n-Butylamine	924163			
n-Nitrosodi-n-Propylamine	621647			
n-Nitrosodiethylamine	55185			
n-Nitrosodimethylamine	62759			
n-Nitrosodiphenylamine	86306			
n-Nitrosomorpholine	59892			
n-Nitrosopiperidine	100754			
n-Nitrosopyrrolidine	930552			
Naphthalene	91203			
Nickel and Nickel Compounds	7440020			
Nickel acetate	373024			
Nickel carbonate	13338373			
Nickel carbonyl	13463393			
Nickel hydroxide	12054487			
Nickelocene	1271289			
Nickel Oxide	1313991			
Nickel Refinery Dust	1146			
Nickel Subsulfide	12035722			
Nitric Acid	7697372			
Nitrogen Dioxide	10102440			
o-CRESOL	95487			
o-XYLENE	95476			
Oleum	8014957			
Ozone	10028156			
p-Chloro-o-toluidine	95692			
p-Cresidine	120718			
p-CRESOL	106445			
p-Nitrosodiphenylamine	136105			
p-XYLENE	106423			
Pentachlorophenol	87865			
Perchloroethylene	127184			
Phenol	108952			
Phosgene	75445			
Phosphine	7803512			
Phosphoric Acid	7664382			
Phthalic Anhydride	85449			
Polychlorinated Biphenyls	1336363			
Potassium Bromate	7758012			
Propylene	115071			
Propylene Glycol Monomethyl Ether	107982			
Propylene oxide	75569			
Selenium	7782492			
Selenium sulfide	7446346			
Silica (crystalline, respirable)	7633869			
Sodium hydroxide	1310732			
Styrene	100425			
Sulfates	9960			
Sulfur Dioxide	7446095			
Sulfuric Acid	7664939			
Sulfur Trioxide	7446719			
Tertiary-butyl acetate	540885			
Tetrachloroethylene	127184			
Thioacetamide	62555			
Toluene	108883			
Toluene Diisocyanates	26471625			
Toluene Diisocyanates (2,4 and 2, 6)	584849			
Toluene Diisocyanates (2,4 and 2, 6)	91087			
Trichloroethylene	79016			

Triethylamine	121448					
Urethane	51796					
Vanadium pentoxide	1314621					
Vinyl acetate	108054					
Vinyl chloride	75014					
Xylenes (technical mixture of m, o, p-isomers)	1330207	3.75E-01	1.01E-03			
Vanadium	7440522					
TOTAL UNADJUSTED Risk Values		2.894	0.004	0.000		



Plant Name	200282
Plant No.	BG Autobody & Paint

Note: This tool can only be used for permitted facilities that are not gas stations.

Step 2: Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	230

Step 3:
Enter Emissions Data

Chemical Name	CAS No.	Emission (lb/day)	Cancer (p 1,000,000)	Chronic (index)	Concentration (µg/m³)
Fine Particulate Matter (PM2.5)		0.00E+00			
1,1,1-Trichloroethane	71556				
1,1,2,2-Tetrachloroethane	79345				
1,1,2-Trichloroethane	79005				
1,1-Dichloroethane	75343				
1,1-Dichloroethylene	75354				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	235879				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	55673897				
1,2,3,4,7,8-Hexachlorodibenzofuran	39227286				
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857				
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743				
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764				
1,2,3,7,8-Pentachlorodibenzofuran	57117415				
1,2-Dibromo-3-chloropropane	96128				
1,2-Dibromoethane	106934				
1,2-Dichloroethane	107062				
1,2-Epoxybutane	106887				
1,3-Butadiene	106990				
1,3-Propane sulfone	1120714				
1,4-Dichlorobenzene	106467				
1,4-Dioxane	123911				
1,6-Dinitropyrene	42397648				
1,6-Hexamethylene Diisocyanate (monomer)	822060				
1,8-Dinitropyrene	42397659				
1-Nitropyrene	5522430				
2,3,4,4',5-PeCB	65510443				
2,3',4,4',5,5'-HxCB	62662776				
2,3',4,4',5-PeCB	31508006				
2,3,3',4,4',5'-HxCB	69782907				
2,3,3',4,4',5,5'-HpCB	39635319				
2,3,3',4,4',5-HxCB	38380084				
2,3,3',4,4'-PeCB	32598144				
2,3,4,4',5-PeCB	74472370				
2,3,4,6,7,8-Hexachlorodibenzofuran	60851346				
2,3,4,7,8-Pentachlorodibenzofuran	57117314				
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compo	1746016				
2,3,7,8-Tetrachlorodibenzofuran	51207319				
2,4,6-Trichlorophenol	88062				
2,4-Diaminobenzene	615054				
2,4-Diaminotoluene	95807				
2,4-Dinitrotoluene	121142				
2-Aminonaphthalene	117793				
2-Nitrofluorene	607578				
3,3',4,4',5,5'-HxCB	32774166				
3,3',4,4',5-PeCB	57465288				
3,3',4,4'-TCB	32598133				
3,3-Dichlorobenzidine	91941				
3,4,4',5-TCB	70362504				
3-Methylcholanthrene	56495				
4,4-Methylene bis(2-chloroaniline)	101144				
4,4-Methylenedianiline	101779				
4-Chloro-ortho-phenylenediamine	95830				
4-Dimethylaminobenzene	60117				
4-Nitropyrene	57835924				
5-Methylchrysene	3697243				
5-Nitroacenaphthene	602879				
6-Nitrochrysene	7496028				
7,12-Dimethylbenz[a]anthracene	57976				
7H-dibenzo[c,g]carbazole	194592				
Acetaldehyde	75070				
Acetamide	60355				
Acrolein	107028				
Acrylamide	79061				
Acrylic Acid	79107				
Acrylonitrile	107131				
Allyl chloride	107051				
Ammonia	7664417				
Aniline	62533				
Arsenic	7440382				
Arsine	7784421				
Asbestos [1/(100 PCM fibers/m³)] ¹ -1	1332214				
Benzo[a]anthracene	56553				
Benzene	71432				
Benzidine	92875				
Benzo[a]pyrene	50328				
Benzo[b]fluoranthene	205992				
Benzo[k]fluoranthene	205823				
Benzo[a]fluoranthene	207089				
Benzyl Chloride	100447				
Beryllium	7440417				
Bis(2-chloroethyl) Ether	111444				
Bis(2-chloromethyl) Ether	542881				
Cadmium	7440439				
Caprolactam	305602				
Carbon Dioxide	75150				
Carbon Monoxide	630080				
Carbon Tetrachloride	56235				
Carbonyl Sulfide	463581				
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262				
Chlorine	7782505				
Chlorine Dioxide	10049044				
Chlorite	7758192				
Chlorobenzene	108907				
Chlorodibromomethane	124481				
Chloroethane (Ethyl Chloride)	75003				
Chloroform	67663				
Chloropicrin	76062				
Chromic Trioxide	1333820				
Chromium-hexavalent	18540299				
Barium chromate	10294403				
Calcium chromate	13765190				
Lead chromate	7758976				
Sodium dichromate	10588019				
Strontium chromate	7789062				

Step 4: Specify Source Type	
Does facility have only diesel backup generators?	no

Note: On-road generators, diesel engines used if source is not a generator.

Step 5: Record the Estimates		
Cancer Risk	0.018	per 1,000,000
Chronic Hazard	0.000	
PM2.5 Concentration	0.000	µg/m ³

Zinc chromate	13530659			
CHROMIC TRIOXIDE (as chromic acid mist)	1333820			
Chrysene	218019			
Cobalt	7440484			
Copper	7440508			
Copper and Copper Compounds	7440508			
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Direct Brown 95 (Technical Grade)	16071866			
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Ethylbenzene	100414			
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Ethylene Oxide	75218			
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Hydrazine	302012			
Hydrogen Chloride	7647010			
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Hydrogen Selenide	7783075			
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Indeno[1,2-3-c-d]pyrene	319395			
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Methyl Tertiary Butyl Ether	1634044			
Methylene Chloride (Dichloromethane)	75602			
Methylene Diphenyl Isocyanate (MDI)	101688			
Michlers Ketone	90948			
n-Hexane	110543			
n-Nitroso-n-methylethylamine	10595956			
n-Nitrosodi-n-Butylamine	924163			
n-Nitrosodi-n-Propylamine	621647			
n-Nitrosodiethylamine	55185			
n-Nitrosodimethylamine	62759			
n-Nitrosodiphenylamine	86306			
n-Nitrosomorpholine	59892			
n-Nitrosopiperidine	100754			
n-Nitrosopyrrolidine	930552			
Naphthalene	91203			
Nickel and Nickel Compounds	7440020			
Nickel acetate	373024			
Nickel carbonate	13338373			
Nickel carbonyl	13463393			
Nickel hydroxide	12054487			
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Nickel Subsulfide	12035722			
Nitric Acid	7697372			
Nitrogen Dioxide	10102440			
o-CRESOL	95487			
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Oleum	8014957			
Ozone	10028156			
p-Chloro-o-toluidine	95692			
p-Cresidine	120718			
p-CRESOL	106445			
p-Nitrosodiphenylamine	136105			
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Pentachlorophenol	87865			
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Phenol	108952			
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Potassium Bromate	7758012			
Propylene	115071			
Propylene Glycol Monomethyl Ether	107982			
Propylene oxide	75569			
Selenium	7782492			
Selenium sulfide	7446346			
Silica (crystalline, respirable)	7633869			
Sodium hydroxide	1310732			
Styrene	100425			
Sulfates	9960			
Sulfur Dioxide	7446095			
Sulfuric Acid	7664939			
Sulfur Trioxide	7446719			
Tertiary-butyl acetate	540885			
Tetrachloroethylene	127184			
Thioacetamide	62555			
Toluene	108883			
Toluene Diisocyanates	26471625			
Toluene Diisocyanates (2,4 and 2, 6)	584849			
Toluene Diisocyanates (2,4 and 2, 6)	91087			
Trichloroethylene	79016			

Triethylamine	121448					
Urethane	51796					
Vanadium pentoxide	1314621					
Vinyl acetate	108054					
Vinyl chloride	75014					
Xylenes (technical mixture of m, o, p-isomers)	1330207	1.11E-02	3.00E-05			
Vanadium	7440522					
TOTAL UNADJUSTED Risk Values		0.086	0.000	0.000		

2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool
Version 1.0 - February 18, 2022

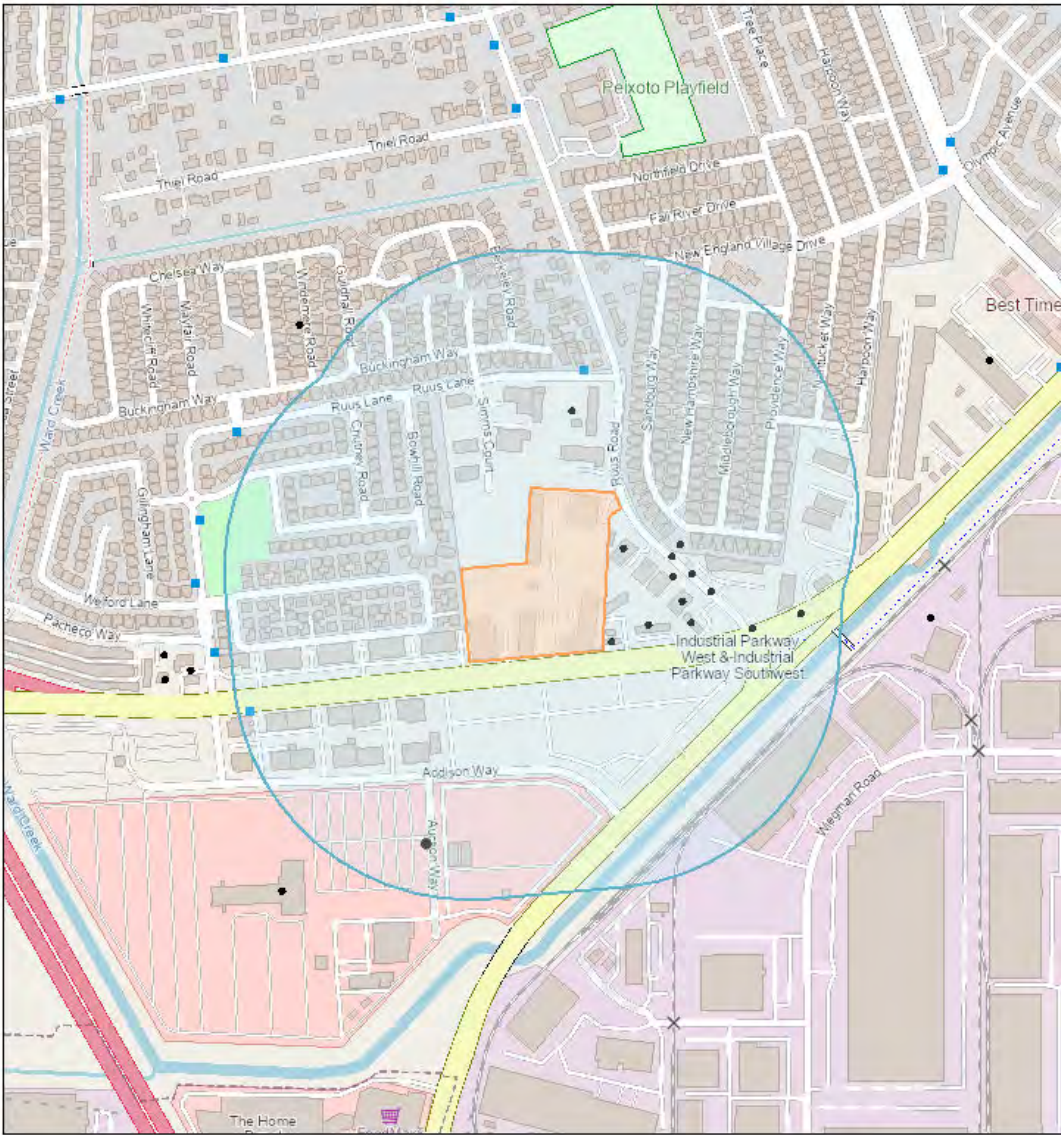
Required Value	User Defined Input	Instructions
Annual Throughput (gallons/year)	2700000	Enter your gas station's annual throughput in gallons of gasoline dispensed per year.
Hourly Dispensing Throughput (gallons/hour)	700	The tool will calculate the maximum hourly vehicle fueling throughput based on annual throughput as defined by Table 10 of the 2020 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Document (Technical Guidance). If a different value is desired please enter it into cell L4.
Hourly Loading Throughput (gallons/hour)	8800	The tool will calculate the maximum hourly loading throughput based on annual throughput as defined by Table 10 of the Technical Guidance. If a different value is desired please enter it into cell L5.
Meteorological Data	San Jose	Select appropriate meteorological data. Met sets provided include 2 rural (Redding and Lancaster) and 4 urban (Fresno, Ontario, San Diego, and San Jose) locations. Use whichever best correlates to your location. If you would like to use site-specific meteorological data please refer to the Variable Met Tool.
Distance to Nearest Resident (meters)	190	Enter the distance to the nearest residential receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Nearest Business (meters)	190	Enter the distance to the nearest worker receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Acute Receptor (meters)	190	Enter the distance where acute impacts are expected in meters as measured from the edge of the station canopy. This can be the distance to the property boundary, nearest resident, nearest worker, or any other user defined location. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Control Scenario	EVR Phase I & EVR Phase II	Select the appropriate control scenario for your gas station. Please refer to technical Guidance for an explanation of the different control scenarios. Almost all gas stations in California are equipped with EVR Phase I and EVR Phase II controls.
Include Building Downwash Adjustments	yes	Building downwash may over estimate risk results. High results should be investigated further through site-specific health risk assessment.
Risk Value	Results	
Max Residential Cancer Risk (chances/million)	0.66	
Max Worker Cancer Risk (chances/million)	0.05	
Chronic HI	0.00	
Acute HI	0.10	

 Screening Report

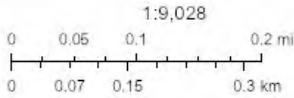
Area of Interest (AOI) Information

Area : 5,953,228.81 ft²

Apr 18 2023 13:24:43 Pacific Daylight Time



• Permitted Stationary Sources



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Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	13	N/A	N/A

Permitted Stationary Sources

#	Facility_I	Facility_N	Address	City	State
1	9764	ASM Autobody & Repair	29565 RUUS RD	Hayward	CA
2	11366	Universal Auto Body & Repair	1551 Indstrial Pkwy West Suite B	Hayward	CA
3	15575	AAA Auto Repair Body & Paint	1421 Industrial Pkwy W	Hayward	CA
4	19020	R F Autobody	29547 Ruus Rd # B	Hayward	CA
5	19196	Bay Area Auto Body & Repair	29565 Ruus Rd Unit B	Hayward	CA
6	19304	V V Collision Center	29411 Ruus Road	Hayward	CA
7	19778	Alameda County Public Works Agency	29560 Ruus Road	Hayward	CA
8	22112	Aya Auto Body Repair	29583 RUUS RD	Hayward	CA
9	22625	Destiny Auto Collision	29529 Ruus Rd	Hayward	CA
10	24480	Auto Collision Experts	29401 Ruus Road	Hayward	CA
11	105507	Bay Area Holdener Petroleum Co	1565 Industrial Pkwy W	Hayward	CA
12	200282	BG Autobody & Paint	29523 RUUS RD	Hayward	CA
13	200328	Popeye Auto Collision #2	29501 RUUS RD	Hayward	CA

#	Zip	County	Latitude	Longitude	Details
1	94544	Alameda	37.618651	-122.063113	No Data
2	94544	Alameda	37.618382	-122.063604	No Data
3	94544	Alameda	37.618506	-122.061384	No Data
4	94544	Alameda	37.618968	-122.062974	No Data
5	94544	Alameda	37.618764	-122.062696	No Data
6	94544	Alameda	37.618944	-122.063248	No Data
7	94541	Alameda	37.619304	-122.063142	Generator
8	94544	Alameda	37.618402	-122.062981	No Data
9	94544	Alameda	37.619172	-122.063263	No Data
10	94544	Alameda	37.620853	-122.064728	No Data
11	94544	Alameda	37.618189	-122.064144	Gas Dispensing Facility
12	94544	Alameda	37.618336	-122.062094	No Data
13	94544	Alameda	37.619266	-122.063969	No Data

#	NAICS	NAICS_Sect	NAICS_Subs	NAICS_Indu	Cancer_Ris
1	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
2	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
3	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
4	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
5	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
6	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
7	925120	Public Administration	Administration of Housing Programs, Urban Planning, and Community Development	Administration of Urban Planning and Community and Rural Development	35.367000
8	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
9	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
10	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
11	447110	Retail Trade	Gasoline Stations	Gasoline Stations with Convenience Stores	3.615000
12	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000
13	811121	Other Services (except Public Administration)	Repair and Maintenance	Automotive Body, Paint, and Interior Repair and Maintenance	0.000000

#	Chronic_Ha	PM25	Count
1	0.004000	0.000000	1
2	0.002000	0.000000	1
3	0.000000	0.000000	1
4	0.000000	0.000000	1
5	0.001000	0.000000	1
6	0.000000	0.000000	1
7	0.016000	0.044000	1
8	0.003000	0.000000	1
9	0.002000	0.000000	1
10	0.000000	0.000000	1
11	0.016000	0.000000	1
12	0.000000	0.000000	1
13	0.001000	0.000000	1

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

Centerpoint Industrial Detailed Report

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- 2. Emissions Summary
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
 - 4.1. Mobile Emissions by Land Use
 - 4.1.1. Unmitigated
 - 4.2. Energy
 - 4.2.1. Electricity Emissions By Land Use - Unmitigated
 - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
 - 4.3. Area Emissions by Source

4.3.2. Unmitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Centerpoint Industrial
Operational Year	2023
Lead Agency	City of Hayward
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	30.0
Location	37.619631830681925, -122.06591898965937
County	Alameda
City	Hayward
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1600
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

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
General Light Industry	72.0	1000sqft	7.44	72,000	11,953	—	—	—

Parking Lot	247	1000sqft	5.67	0.00	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.20	3.77	2.14	16.2	0.03	0.09	0.95	1.04	0.09	0.17	0.26	80.0	4,544	4,624	8.39	0.22	31.6	4,930
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.59	3.20	2.34	12.5	0.03	0.08	0.95	1.03	0.08	0.17	0.25	80.0	4,364	4,444	8.41	0.23	19.1	4,742
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.71	3.31	2.13	12.5	0.03	0.08	0.86	0.95	0.08	0.15	0.24	80.0	4,133	4,213	8.39	0.21	23.8	4,510
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.60	0.39	2.28	0.01	0.02	0.16	0.17	0.02	0.03	0.04	13.2	684	697	1.39	0.04	3.94	747

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	1.55	1.43	1.26	12.4	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,900	2,900	0.12	0.13	12.8	2,953
Area	0.56	2.30	0.03	3.13	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	12.9	12.9	< 0.005	< 0.005	—	12.9
Energy	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,570	1,570	0.18	0.01	—	1,579
Water	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Waste	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	2.20	3.77	2.14	16.2	0.03	0.09	0.95	1.04	0.09	0.17	0.26	80.0	4,544	4,624	8.39	0.22	31.6	4,930
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.50	1.37	1.49	11.8	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,733	2,733	0.14	0.14	0.33	2,778
Area	—	1.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,570	1,570	0.18	0.01	—	1,579
Water	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Waste	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	1.59	3.20	2.34	12.5	0.03	0.08	0.95	1.03	0.08	0.17	0.25	80.0	4,364	4,444	8.41	0.23	19.1	4,742
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	1.22	1.27	10.3	0.02	0.02	0.86	0.88	0.02	0.15	0.17	—	2,495	2,495	0.12	0.12	5.03	2,539
Area	0.27	2.04	0.01	1.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.35	6.35	< 0.005	< 0.005	—	6.37
Energy	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,570	1,570	0.18	0.01	—	1,579
Water	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Waste	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	1.71	3.31	2.13	12.5	0.03	0.08	0.86	0.95	0.08	0.15	0.24	80.0	4,133	4,213	8.39	0.21	23.8	4,510

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.22	0.23	1.87	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	—	413	413	0.02	0.02	0.83	420
Area	0.05	0.37	< 0.005	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.05	1.05	< 0.005	< 0.005	—	1.06
Energy	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.03	< 0.005	—	261
Water	—	—	—	—	—	—	—	—	—	—	—	5.28	10.0	15.3	0.54	0.01	—	32.8
Waste	—	—	—	—	—	—	—	—	—	—	—	7.97	0.00	7.97	0.80	0.00	—	27.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	0.31	0.60	0.39	2.28	0.01	0.02	0.16	0.17	0.02	0.03	0.04	13.2	684	697	1.39	0.04	3.94	747

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	1.55	1.43	1.26	12.4	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,900	2,900	0.12	0.13	12.8	2,953
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
Total	1.55	1.43	1.26	12.4	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,900	2,900	0.12	0.13	12.8	2,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	1.50	1.37	1.49	11.8	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,733	2,733	0.14	0.14	0.33	2,778
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
Total	1.50	1.37	1.49	11.8	0.03	0.02	0.95	0.97	0.02	0.17	0.19	—	2,733	2,733	0.14	0.14	0.33	2,778
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.24	0.22	0.23	1.87	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	—	413	413	0.02	0.02	0.83	420
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
Total	0.24	0.22	0.23	1.87	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	—	413	413	0.02	0.02	0.83	420

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	439	439	0.07	0.01	—	443
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	121	121	0.02	< 0.005	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	—	560	560	0.09	0.01	—	565
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	439	439	0.07	0.01	—	443
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	121	121	0.02	< 0.005	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	—	560	560	0.09	0.01	—	565
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	72.7	72.7	0.01	< 0.005	—	73.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	20.0	20.0	< 0.005	< 0.005	—	20.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	92.7	92.7	0.01	< 0.005	—	93.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,010	1,010	0.09	< 0.005	—	1,013
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
Total	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,010	1,010	0.09	< 0.005	—	1,013
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,010	1,010	0.09	< 0.005	—	1,013

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
Total	0.09	0.05	0.85	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	1,010	1,010	0.09	< 0.005	—	1,013
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	167	167	0.01	< 0.005	—	168
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
Total	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	167	167	0.01	< 0.005	—	168

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.56	0.51	0.03	3.13	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	12.9	12.9	< 0.005	< 0.005	—	12.9
Total	0.56	2.30	0.03	3.13	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	12.9	12.9	< 0.005	< 0.005	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	—	1.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.05	0.05	< 0.005	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.05	1.05	< 0.005	< 0.005	—	1.06
Total	0.05	0.37	< 0.005	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.05	1.05	< 0.005	< 0.005	—	1.06

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.9	60.6	92.5	3.28	0.08	—	198
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	5.28	10.0	15.3	0.54	0.01	—	32.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.28	10.0	15.3	0.54	0.01	—	32.8

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	48.1	0.00	48.1	4.81	0.00	—	168
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	7.97	0.00	7.97	0.80	0.00	—	27.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.97	0.00	7.97	0.80	0.00	—	27.9

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
General Light Industry	357	143	360	119,349	3,424	1,374	3,452	1,144,315
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	108,000	36,000	14,820

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)
General Light Industry	785,531	204	0.0330	0.0040	3,152,816
Parking Lot	216,372	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	16,650,000	135,802
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	89.3	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	14.0	annual days of extreme heat
Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	14.9
AQ-PM	29.7
AQ-DPM	55.7
Drinking Water	6.74
Lead Risk Housing	22.2
Pesticides	0.00
Toxic Releases	56.1
Traffic	70.3
Effect Indicators	—
CleanUp Sites	20.7
Groundwater	74.8
Haz Waste Facilities/Generators	81.1

Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	94.0
Cardio-vascular	90.2
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	44.3
Housing	42.8
Linguistic	73.1
Poverty	20.1
Unemployment	32.3

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	66.67522135
Employed	36.78942641
Median HI	63.45438214
Education	—
Bachelor's or higher	36.87925061
High school enrollment	100
Preschool enrollment	21.01886308
Transportation	—
Auto Access	70.20402926
Active commuting	69.70358014

Social	—
2-parent households	11.29218529
Voting	45.52803798
Neighborhood	—
Alcohol availability	73.4377005
Park access	61.76055434
Retail density	57.75696138
Supermarket access	46.16963942
Tree canopy	29.42384191
Housing	—
Homeownership	73.93814962
Housing habitability	9.303220839
Low-inc homeowner severe housing cost burden	39.11202361
Low-inc renter severe housing cost burden	0.128320287
Uncrowded housing	38.91954318
Health Outcomes	—
Insured adults	51.2511228
Arthritis	20.2
Asthma ER Admissions	7.6
High Blood Pressure	42.5
Cancer (excluding skin)	32.7
Asthma	58.2
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	35.3
Diagnosed Diabetes	25.3
Life Expectancy at Birth	22.3
Cognitively Disabled	38.1

Physically Disabled	20.3
Heart Attack ER Admissions	4.7
Mental Health Not Good	56.0
Chronic Kidney Disease	27.1
Obesity	78.0
Pedestrian Injuries	19.6
Physical Health Not Good	43.5
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	94.4
Current Smoker	56.0
No Leisure Time for Physical Activity	33.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	29.3
Children	87.0
Elderly	22.5
English Speaking	36.5
Foreign-born	82.1
Outdoor Workers	64.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	21.2
Traffic Density	74.4
Traffic Access	59.8
Other Indices	—
Hardship	59.3
Other Decision Support	—

2016 Voting	36.7
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7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	56.0
Healthy Places Index Score for Project Location (b)	49.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	The site is currently developed with five one-story industrial buildings totaling approximately 72,082 square feet, 247,000 of paved surface parking areas, and 11,953 square feet of landscaping.