

**APPENDIX A**

---

**Air Quality and Greenhouse Gas Technical Study**

**MILPITAS STRATFORD SCHOOL  
DEVELOPMENT PROJECT**

*Air Quality & Greenhouse Gas  
Technical Study*

**Prepared for:**

City of Milpitas  
455 E. Calaveras Boulevard  
Milpitas, California 95035

**Prepared by:**

Impact Sciences, Inc.  
811 W. 7<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90017



# AIR QUALITY & GREENHOUSE GAS IMPACT ASSESSMENT

---

## 1.0 INTRODUCTION

This study describes the existing air quality and greenhouse gas (GHG) environment of the proposed Stratford School Project site located at 125 N. Milpitas Boulevard and evaluates the potential impacts to air quality and GHG as a result of Project implementation. This report has been prepared by Impact Sciences, Inc., in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). This analysis considers both the temporary air quality and GHG impacts that would result from Project construction and the long-term impacts associated with the operation of the Project.

### 1.1 Project Location

The Stratford School Project site is located on a 5.94-acre site within the northern portion of an existing commercial retail complex located at 125 N. Milpitas Boulevard in Milpitas, California. The Project site is on the west side of North Milpitas Boulevard between Beresford Ct. and Shadow Lake Court. The transit facility closest to the proposed Project site is the N. Milpitas Boulevard & Town Center Drive bus stop for the Alameda-Contra Costa (AC) Transit Bus Line 217 Mission San Jose – Milpitas.

### 1.2 Project Description

The proposed Project would redevelop an existing 44,087.9-square-foot, single-floor commercial building at 125 N. Milpitas Boulevard to the Stratford School that would accommodate 480 students in pre-school through first-grade school classes. The facility would include 20 classrooms and accessory spaces such as a multi-purpose hall, administrative offices, conference room, and a break room for teachers. The proposed Project will demolish and redo the interiors of the existing building with new paint, install new doors and windows on the existing exterior wall on the west side; and replace exterior glazing in existing openings, in addition to converting an existing dock to create outdoor space, and adding sidewalks and new trees within existing landscaped areas. The existing commercial retail complex will dedicate 4 existing parking spaces to the school and accommodate electric vehicle (EV) charging facilities. The Project site is surrounded by single-family residences to the north, east, and west as well as commercial land uses to the south.

## **2.0 AIR QUALITY**

### **2.1 Air Quality Setting**

#### *San Francisco Bay Area Air Basin*

##### **San Francisco Bay Area Air Basin Characteristics**

The City of Milpitas is located within the San Francisco Bay Area Air Basin (SFBAAB), the SFBAAB encompasses all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, the southern portion of Sonoma, and the southwestern portion of Solano County. Air quality in this area is determined by such natural factors as topography, meteorology, and climate, in addition to the presence of existing air pollution sources and ambient conditions.<sup>1</sup>

##### *Climate*

The climate is dominated by the strength and location of a semi-permanent, subtropical high-pressure cell. During the summer, the Pacific high-pressure cell is centered over the northeastern Pacific Ocean resulting in stable meteorological conditions and a steady northwesterly wind flow. Upwelling of cold ocean water from below to the surface because of the northwesterly flow produces a band of cold water off the California coast. The cool and moisture-laden air approaching the coast from the Pacific Ocean is further cooled by the presence of the cold-water band resulting in condensation and the presence of fog and stratus clouds along the Northern California coast.

In the winter, the Pacific high-pressure cell weakens and shifts southward resulting in wind flow offshore, the absence of upwelling, and the occurrence of storms. Weak inversions coupled with moderate winds result in a low air pollution potential.

##### *Topography*

The topography of the SFBAAB is characterized by complex terrain, consisting of coastal mountain ranges, inland valleys and bays. This complex terrain, especially the higher elevations, distorts the normal wind flow patterns in the SFBAAB. The greatest distortion occur when low-level inversions are present and the air beneath the inversion flow independently of air above the inversion, a condition that is common in the summer time.

---

<sup>1</sup> Bay Area Air Quality Management District. 2017. CEQA Guidelines. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

### ***Wind Patterns***

During the summer, winds flowing from the northwest are drawn inland through the Golden Gate and over the lower portions of the San Francisco Peninsula. Immediately south of Mount Tamalpais, the northwesterly winds accelerate considerably and come more directly from the west as they stream through the Golden Gate. This channeling of wind through the Golden Gate produces a jet that sweeps eastward and splits off to the northwest toward Richmond and to the southwest toward San Jose when it meets the East Bay hills.

In the winter, the SFBAAB frequently experiences storm conditions with moderate to strong winds, as well as periods of stagnation with very light winds. Winter stagnation episodes are characterized by drainage flows in coastal valleys. Drainage is a reversal of the usual daytime air-flow patterns; air moves from the Central Valley towards the coast and back down toward the Bay from the smaller valleys within the SFBAAB.

### ***Temperature***

Summertime temperatures in the SFBAAB are determined in large part by the effect of differential heating between land and water surfaces. Because land tends to heat up and cool off more quickly than water, a large-scale gradient (differential) in temperature is often created between the coast and the Central Valley, and small-scale local gradients are often produced along the shorelines of the ocean and bays. The temperature gradient near the ocean is also exaggerated, especially in summer, because of the upwelling of cold ocean bottom water along the coast. On summer afternoons the temperatures at the coast can be 35°F cooler than temperatures 15 to 20 miles inland. At night, this contrast usually decreases to less than 10°.

In the winter, the relationship of minimum and maximum temperatures is reversed. During the daytime the temperature contrast between the coast and inland areas is small, whereas at night the variation in temperature is large.

### ***Precipitation***

The SFBAAB is characterized by moderately wet winters and dry summers. Winter rains account for about 75% of the average annual rainfall. The amount of annual precipitation can vary greatly from one part of the SFBAAB to another even within short distances. In general, total annual rainfall can reach 40 inches in the mountains, but it is often less than 16 inches in sheltered valleys.

During rainy periods, ventilation (rapid horizontal movement of air and injection of cleaner air) and vertical mixing are usually high, and this pollution levels tend to be low. However, frequent dry periods do occur during the winter when mixing and ventilation are low and pollutant levels build up.

### ***Air Pollutants of Concern***

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards for outdoor concentrations. The federal and state standards have been set at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons such as children, pregnant women, and the elderly, from illness or discomfort. Criteria air pollutants include ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), particulate matter 2.5 microns or less in diameter (PM<sub>2.5</sub>), particulate matter ten microns or less in diameter (PM<sub>10</sub>), and lead (Pb). Note that reactive organic gases (ROGs), which are also known as reactive organic compounds (ROCs) or volatile organic compounds (VOCs), and nitrogen oxide (NO<sub>x</sub>) are not classified as criteria pollutants. However, ROGs and NO<sub>x</sub> are widely emitted from land development projects and participate in photochemical reactions in the atmosphere to form O<sub>3</sub>; therefore, NO<sub>x</sub> and ROGs are relevant to the proposed Project and are of concern in the air basin and are listed below along with the criteria pollutants. Sources and health effects commonly associated with criteria pollutants are summarized in **Table 1, Criteria Pollutants Summary of Common Sources and Effects**.

**Table 1**  
**Criteria Pollutants Summary of Common Sources and Effects**

Pollutant	Major Man-Made Sources	Human Health & Welfare Effects
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuels is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO <sub>2</sub> )	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include moto vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to global warming and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O <sub>3</sub> )	Formed by a chemical reaction between volatile organic compounds (VOC) and nitrous oxides (NO <sub>x</sub> ) in the presence of sunlight. VOCs are also commonly referred to as reactive organic gases (ROGs). Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints, and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles, and dyes.
Particulate Matter (PM <sub>10</sub> & PM <sub>2.5</sub> )	Produced by power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles, and others.	Increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO <sub>2</sub> )	A colorless, nonflammable gas formed when fuel containing sulfur is burned; when gasoline is extracted from ore. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant; aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage marble, iron, and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.

Source: CAPCOA, Health Effects. Available: <http://www.capcoa.org/health-effects/>

## Ambient Air Quality

### Criteria Air Pollutant Monitoring Data

Ambient air quality in Milpitas can be characterized by ambient air quality measurements conducted at nearby air quality monitoring stations. Existing ambient air quality and historical trends and projections in the vicinity of Milpitas are documented by measurements made by the Bay Area Air Quality Management

District (BAAQMD), the air pollution regulatory agency in the SFBAAB regions maintains air quality monitoring stations which process ambient air quality measurements.

The purpose of the monitoring station is to measure ambient concentrations of pollutants and determine whether ambient air quality meets the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS). Ozone and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) are pollutants of particular concern in the SFBAAB. The monitoring station located closest to the proposed Project site and most representative of air quality near the Project site is the San Jose-Jackson Street Station located approximately 6.2 miles south of the Project site. Ambient air emission concentrations vary due to localized variations in emissions sources and climate and should be considered “generally” representative of ambient concentrations in the Milpitas area. The San Jose-Jackson Street station monitors O<sub>3</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, and NO<sub>2</sub>, see **Table 2, San Jose-Jackson Street Air Monitoring Station Ambient Pollutant Concentrations**.

**Table 2**  
**San Jose-Jackson Street Air Monitoring Station Ambient Pollutant Concentrations**

Pollutant	Standards <sup>1</sup>	Year		
		2017	2018	2019
<b>OZONE (O<sub>3</sub>)</b>				
Maximum 1-hour concentration monitored (ppm)		0.121	0.078	0.095
Maximum 8-hour concentration monitored (ppm)		0.098	0.061	0.081
Number of days exceeding state 1-hour standard	0.09 ppm	3	0	1
Number of days exceeding federal/state 8-hour standard	0.070 ppm	4	0	2
<b>NITROGEN DIOXIDE (NO<sub>2</sub>)</b>				
Maximum 1-hour concentration monitored (ppm)		0.068	0.086	0.060
Annual average concentration monitored (ppm)		NA	0.012	0.010
Number of days exceeding state 1-hour standard	0.18 ppm	0	0	0
<b>FINE PARTICULATE MATTER (PM<sub>2.5</sub>)</b>				
Maximum 24-hour concentration monitored (µg/m <sup>3</sup> )		49.7	133.9	27.6
Annual average concentration monitored (µg/m <sup>3</sup> )		9.5	12.7	9.0
Number of samples exceeding federal standard	35 µg/m <sup>3</sup>	6	15	0
<b>RESPIRABLE PARTICULATE MATTER (PM<sub>10</sub>)</b>				
Maximum 24-hour concentration monitored (µg/m <sup>3</sup> )		69.8	121.8	77.1
Annual average concentration monitored (µg/m <sup>3</sup> )		21.3	23	23
Number of samples exceeding state standard	50 µg/m <sup>3</sup>	6	4	4

Source: California Air Resources Board, “Air Quality Data Statistics,” <http://www.arb.ca.gov/adam/>. 2021.

NA = not available

<sup>1</sup> Parts by volume per million of air (ppm), micrograms per cubic meter of air (µg/m<sup>3</sup>), or annual arithmetic mean (aam).

<sup>2</sup> The 8-hour federal O<sub>3</sub> standard was revised from 0.075 ppm to 0.070 ppm in 2015. The statistics shown are based on the 2015 standard of 0.070 ppm.



The attainment status for the SFBAAB region is included in **Table 3, Attainment Status of the San Francisco Bay Area Air Basin**. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The SFBAAB region is designated as a nonattainment area for federal ozone and are designated as nonattainment for state ozone, PM10, and PM2.5 standards.

**Table 3**  
**Attainment Status of the San Francisco Bay Area Air Basin**

Pollutant	State	Federal
Ozone (O <sub>3</sub> )	Non-Attainment	Non-attainment
Particulate Matter (PM <sub>10</sub> )	Non-Attainment	Unclassified
Particulate Matter (PM <sub>2.5</sub> )	Non-Attainment	Attainment
Carbon Monoxide (CO)	Attainment	Attainment
Nitrogen Dioxide (NO <sub>2</sub> )	Attainment	Attainment
Sulfur Dioxide (SO <sub>2</sub> )	Attainment	Attainment
Lead	Attainment	Attainment

Source: BAAQMD. 2017. *Air Quality Standards and Attainment Status*. Available online at: <http://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status#ten>, accessed January 12, 2021.

### Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For regulatory purposes, carcinogenic TACs are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

There are many different types of TACs, with varying degrees of toxicity. Sources of TACs include industrial processes, such as petroleum refining and chrome-plating operations; commercial operations, such as gasoline stations and dry cleaners; and motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as from accidental releases of hazardous materials during upset conditions. The health effects associated with TACs are quite diverse and generally are assessed locally, rather than regionally. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute effects such as eye watering, respiratory irritation (a cough), running nose, throat pain, and headaches.<sup>2</sup>

To date, the California Air Resources Board (CARB) has designated 244 compounds as TACs. Additionally, CARB has implemented control measures for several compounds that pose high risks and show potential

<sup>2</sup> Bay Area Air Quality Management District. 2017. *CEQA Guidelines*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

for effective control. Most of the estimated health risks from TACs can be attributed to a relatively few compounds.<sup>3</sup>

CARB identified diesel particulate matter (DPM) as a TAC. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances, including 40 cancer-causing substances. Diesel exhaust is a complex mixture of particulates and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

### **Sensitive Receptors**

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiovascular diseases.<sup>4</sup>

Residential areas are sensitive receptors to air pollutants because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. Children are considered more susceptible to health effects of air pollution due to their immature immune systems and developing organs.<sup>5</sup> As such, schools are also considered sensitive receptors, as children are present for extended durations and engage in regular outdoor activities. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation.

---

<sup>3</sup> California Air Resources Board. *CARB Identified Toxic Air Contaminants*. Available online at: <https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants>.

<sup>4</sup> California Air Resources Board. *Sensitive Receptor Assessment*. Available online at: <https://ww2.arb.ca.gov/capp-resource-center/community-assessment/sensitive-receptor-assessment>.

<sup>5</sup> Office of Environmental Health Hazard Assessment and The American Lung Association of California. *Air Pollution and Children's Health*. Available online at: <https://oehha.ca.gov/media/downloads/faqs/kidsair4-02.pdf>.

## **2.2 Existing Setting**

The Project site is currently a vacated 44,087.9 square-foot single story commercial building that was used as a home improvement store. Home improvement stores typically carry odorous products that release VOC emissions including paints, cleaning supplies, and fertilizers. Additionally, the store will generate truck trips from vendors and customer deliveries. The City of Milpitas already includes several hardware and home improvement stores, including a Home Depot located two miles south of the Project site. The existing air quality emissions and vehicle trips generated by the existing store are discussed in **Impact 2**.

## **2.3 Regulatory Framework**

### *Federal*

#### **Clean Air Act**

The Clean Air Act (CAA) of 1970 and the CAA Amendments of 1971 required the U.S. Environmental Protection Agency (EPA) to establish NAAQS, with states retaining the option to adopt more stringent standards or to include other specific pollutants. On April 2, 2007, the Supreme Court found that carbon dioxide is an air pollutant covered by the CAA; however, no NAAQS have been established for carbon dioxide.

These standards are the levels of air quality considered safe, with an adequate margin of safety, to protect the public health and welfare. They are designed to protect those “sensitive receptors” most susceptible to further respiratory distress such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

The EPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designations. **Table 3** lists the federal attainment status of the SFBAAB for the criteria pollutants.

#### **National Emissions Standards for Hazardous Air Pollutants Program**

Under federal law, 187 substances are currently listed as hazardous air pollutants (HAPs). Major sources of specific HAPs are subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAPS) program. The EPA is establishing regulatory schemes for specific source categories

and requires implementation of the Maximum Achievable Control Technologies (MACT) for major sources of HAPs in each source category. State law has established the framework for California’s TAC identification and control program, which is generally more stringent than the federal program and is aimed at HAPs that are a problem in California. The state has formally identified 244 substances as TACs and is adopting appropriate control measures for each. Once adopted at the state level, each air district will be required to adopt a measure that is equally or more stringent.

***National Ambient Air Quality Standards***

The federal CAA required the U.S. EPA to establish NAAQS. The NAAQS set primary standards and secondary standards for specific air pollutants. Primary standards define limits for the intention of protecting public health, which include sensitive populations such as asthmatics, children, and the elderly. Secondary Standards define limits to protect public welfare to include protection against decreased visibility, damage to animals, crops, vegetation, and buildings. A summary of the federal ambient air quality standards is shown in **Table 4, National Ambient Air Quality Standards**.

**Table 4  
National Ambient Air Quality Standards**

Pollutant		Primary/Secondary	Averaging Time	Level
Carbon Monoxide		Primary	8 hours	9 ppm
			1 hour	35 ppm
Lead		Primary and secondary	Rolling 3-month average	0.15 µg/m <sup>3</sup>
Nitrogen dioxide		Primary	1 hour	100 ppb
		Primary and secondary	Annual	0.053 ppm
Ozone		Primary and secondary	8 hours	0.070 ppm
Particulate Matter	PM2.5	Primary	Annual	12 µg/m <sup>3</sup>
		Secondary	Annual	15 µg/m <sup>3</sup>
		Primary and secondary	24 hours	35 µg/m <sup>3</sup>
	PM10	Primary and secondary	24 hours	150 µg/m <sup>3</sup>
Sulfur dioxide		Primary	1 hour	75 ppb
		Secondary	3 hours	0.5 ppm

*Source:*  
California Air Resources Board. May 2016. *Ambient Air Quality Standards*. Available online at: <https://www.arb.ca.gov/research/aaqs/aaqs2.pdf>, accessed January 12, 2021.

## ***State***

### **California Clean Air Act of 1988**

The California CAA of 1988 (CCAA) allows states to adopt ambient air quality standards and other regulations if they are at least as stringent as federal standards. CARB, a part of the California Environmental Protection Agency (Cal EPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the CAAQS. The CCAA, amended in 1992, requires all air quality management districts (AQMDs) in the state to achieve and maintain the CAAQS. The CAAQS are generally stricter than national standards for the same pollutants and has also established state standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles, for which there are no national standards. CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB also has primary responsibility for the development of California's State Implementation Plan (SIP), for which it works closely with the federal government and the local air districts.

### ***California Ambient Air Quality Standards***

The federal CAA permits states to adopt additional or more protective air quality standards if needed. California has set standards for certain pollutants, such as particulate matter and ozone, which are more protective of public health than respective federal standards. California has also set standards for some pollutants that are not addressed by federal standards. The state standards for ambient air quality are summarized in **Table 5, California Ambient Air Quality Standards**.

**Table 5**  
**California Ambient Air Quality Standards**

Pollutant		Averaging Time	Level
Carbon monoxide		8 hours	9 ppm
		1 hour	20 ppm
Lead		30-day average	1.5 µg/m <sup>3</sup>
Nitrogen dioxide		1 hour	0.180 ppm
		Annual	0.030 ppm
Ozone		8 hours	0.070 ppm
		1 hour	0.09 ppm
Particulate matter	PM2.5	Annual	12 µg/m <sup>3</sup>
	PM10	24 hours	50 µg/m <sup>3</sup>
		Annual	20 µg/m <sup>3</sup>
Sulfur dioxide		1 hour	0.25 ppm
		24 hours	0.04 ppm
Sulfates		24 hours	25 µg/m <sup>3</sup>
Hydrogen sulfide		1 hour	0.03 ppm
Vinyl chloride		24 hours	0.01 ppm

Source:

California Air Resources Board. May 2016. *Ambient Air Quality Standards*. Available online at: <https://www.arb.ca.gov/research/aaqs/aaqs2.pdf>, accessed January 12, 2021.

### California State Implementation Plan

The federal CAA (and its subsequent amendments) requires each state to prepare an air quality control plan referred to as a SIP. The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the CAA. The EPA has the responsibility to review all SIPs to determine if they conform to the requirements of the CAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the EPA for approval and publication in the Federal Register. The 2017 Clean Air Plan, *Spare the Air, Cool the Climate* is the SIP for SFBAAB. The 2017 Clean Air Plan is a regional blueprint for achieving air quality standards and healthful air in the SFBAAB. The 2017 Clean Air Plan focuses on two closely related goals: protecting public health and protecting the climate. Consistent with the GHG

reduction targets adopted by the state of California, the plan lays the groundwork for a long-term effort to reduce Bay Area GHG emissions 40% below 1990 levels by 2030 and 80% below 1990 levels by 2050. The 2017 plan also addressed a multi-pollutant strategy to simultaneously reduce emissions and ambient concentrations of ozone, fine particulate matter, toxic air contaminants, as well as GHG's. The control strategy focuses on the following priorities: reduce emissions of criteria air pollutants and TACs from all key sectors; reduce emissions of "super-GHGs" such as methane, black carbon, and fluorinated gases; decrease demand for fossil fuels (gasoline, diesel, and natural gas); and decarbonize the energy system.<sup>6</sup>

### **California Air Toxics "Hot Spots" Information and Assessment Act (AB 2588)**

The California Air Toxics Program is supplemented by the Air Toxics "Hot Spots" program, which became law (AB 2588, Statutes of 1987) in 1987. In 1992, the AB 2588 program was amended by Senate Bill 1731 to require facilities that pose a significant health risk to the community to perform a risk reduction audit and reduce their emissions through implementation of a risk management plan. Under this program, which is required under the Air Toxics "Hot Spots" Information and Assessment Act (Section 44363 of the California Health and Safety Code), facilities are required to report their air toxics emissions, assess health risks, and notify nearby residents and workers of significant risks when present.

Typically, land development projects generate diesel emissions from construction vehicles during the construction phase, as well as some diesel emissions from small trucks during the operational phase. Diesel exhaust is mainly composed of particulate matter and gases, which contain potential cancer-causing substances. Emissions from diesel engines currently include over 40 substances that are listed by EPA as hazardous air pollutants and by CARB as TACs. On August 27, 1998, CARB identified particulate matter in diesel exhaust as a TAC, based on data linking diesel particulate emissions to increased risks of lung cancer and respiratory disease.<sup>7</sup>

In March 2015, the OEHHA adopted "The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments" in accordance with the Health and Safety Code, Section 44300. The Final Guidance Manual incorporates the scientific basis from three earlier developed Technical Support Documents to assess risk from exposure to facility emissions. The 2015 OEHHA Final Guidance has key changes including greater age sensitivity for children, decreased exposure durations, and higher breathing

---

<sup>6</sup> BAAQMD. *Clean Air Plan 2017*. Available online at: <https://www.baaqmd.gov/~/media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a-proposed-final-cap-vol-1-pdf.pdf?la=en>.

<sup>7</sup> Diesel exhaust is included within pollutants subject to the hotspot program. Please refer to OEHHA's Air Toxics Hot Spot Program Risk Assessment Guidelines. <https://oehha.ca.gov/air/crnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>



rate profiles. Because cancer risk could be up to three times greater using this new guidance, it may result in greater mitigation requirements, more agency backlog, and increased difficulty in getting air permits.

The CARB provides a computer program, the Hot Spots Analysis and Reporting Program (HARP), to assist in a coherent and consistent preparation of an HRA. HARP2, an update to HARP, was released in March 2015. HARP2 has a more refined risk characterization in HRA and CEQA documents and incorporates the 2015 OEHHA Final Guidance.

## ***Regional***

### **Bay Area Air Quality Management District**

BAAQMD is the primary agency responsible for assuring that the NAAQS and CAAQS are attained and maintained in the Bay Area. BAAQMD's jurisdiction includes all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo and Santa Clara counties, and the southern portions of Solano and Sonoma counties. The Air District's responsibilities in improving air quality in the region include: preparing plans for attaining and maintaining air quality standards; adopting and enforcing rules and regulations; issuing permits for stationary sources of air pollutants; inspecting stationary sources and responding to citizen complaints; monitors air quality and meteorological conditions; awarding grants to reduce mobile emissions; implementing public outreach campaigns; and assisting local governments in address climate change.

The BAAQMD recommends that all proposed projects implement the following Basic Construction Mitigation Measures:<sup>8</sup>

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 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 mph.

---

<sup>8</sup> Bay Area Air Quality Managements District. 2017. *CEQA Guidelines*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

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. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulation [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determine to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and 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 phone number shall also be visible to ensure compliance with applicable regulations.

## ***Local***

### **City of Milpitas Draft General Plan**

The General Plan is a planning document that defines a long-term vision for the City over the next 20 years. The State of California requires every city and county in California to adopt a General Plan, and the City of Milpitas adopted its current General Plan in 1994.<sup>9</sup> In August 2020, the City released their Draft General Plan 2040 which includes a series of air quality policies aimed at reducing criteria air pollutant and GHG emissions.<sup>10</sup> Goals and policies relevant to the proposed Project include:

- Goal CON-7**                      Implement a proactive approach to maintain and improve air quality within Milpitas and the region.
- *Policy CON 7-1.* Ensure that land use and transportation plans support air quality goals through a logical development pattern that focuses growth in and around existing urbanized areas, locates new housing near places of employment, encourages alternative modes of transportation, supports

---

<sup>9</sup> City of Milpitas. *General Plan Update Project*. Available online at: <http://www.ci.milpitas.ca.gov/planning-documents/general-plan/>.

<sup>10</sup> City of Milpitas. 2020. *General Plan 2040*. Available online at: <https://static1.squarespace.com/static/57277b461d07c02f9c2f5c2c/t/5f774ae6e2a5553d6a5b4f97/1601653499170/Milpitas-General-Plan-PublicReviewDraft-8202020.pdf>.

efficient parking strategies, reduces vehicle miles traveled, and requires projects to mitigate significant air quality impacts.

- *Policy CON 7-2.* Minimize exposure of the public to toxic or harmful air emissions and odors through requiring an adequate buffer or setback distance between residential and other sensitive land uses and land uses that typically generate air pollutants, toxic air contaminants, or obnoxious fumes or odors, including but not limited to industrial, manufacturing, and processing facilities, high-volume roadways, and industrial rail lines. New sensitive receptors, such as residences (including residential care and assisted living facilities for the elderly), childcare centers, schools, playgrounds, churches, and medical facilities shall be located away from existing point sources of air pollution such that excessive levels of exposure do not result in unacceptable health risks. Compliance shall be verified through the preparation of a Health Risk Assessment when deemed necessary by the Planning Director.
- *Policy CON 7-3.* Require projects which generate high levels of air pollutants, such as heavy industrial, manufacturing facilities and hazardous waste handling operations, to incorporate air quality mitigations in their design to reduce impacts to the greatest extent feasible.
- *Policy CON 7-4.* Require projects to adhere to the requirements of the BAAQMD.
- *Policy CON 7-5.* Use the City's development review process and the California Environmental Quality Act (CEQA) to evaluate and mitigate the local and cumulative effects of new development on air quality.
- *Policy CON 7-6.* Coordinate with CARB and the BAAQMD to properly measure air quality emission sources and enforce the standards of the Clean Air Act.
- *Policy CON 7-7.* Comply with regional, state, and federal standards and programs for control of all airborne pollutants and noxious odors, regardless of source.
- *Policy 7-8.* Consider the health risks associated with Toxic Air Contaminants (TACs) when reviewing development applications.

- *Policy CON 7-9.* Coordinate with Santa Clara County and nearby cities to implement regional GHG reduction plans and to consolidate efforts to reduce GHGs throughout the county as appropriate.
- *Policy CON 7-10.* Implement policies and action from the Land Use and Circulation Elements to provide mixed-use developments, locate high-density uses near transit facilities, provide neighborhood-serving retail uses convenient to residential neighborhoods, and other Transportation Demand Management (TDM) programs that would reduce vehicle trips and vehicle miles traveled, thus reducing air-pollutant emissions.
- *Policy CON 7-11.* Encourage improvements and design features that reduce vehicle delay such as bus turnouts, and synchronized traffic signals for new development to reduce excessive vehicle emissions caused by idling.
- *Policy CON 7-12.* Encourage and prioritize infrastructure investments and improvements that promote safe walking, bicycling and increased transit ridership.
- *Policy CON 7-13.* Implement energy policies and actions that have co-benefits of reduced air pollution and greenhouse gases by increasing energy efficiency, conservation, and the use of renewable resources.

## **2.4 Thresholds and Methodology**

### *Thresholds of Significance*

The impact analysis provided below is based on the application of the following California Environmental Quality Act (CEQA) Guidelines Appendix G, which indicates that a project would have a significant impact on air quality if it would:

- 1) Conflict with or obstruct implementation of any applicable air quality plan.
- 2) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.
- 3) Expose sensitive receptors to substantial pollutant concentrations.

4) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The BAAQMD CEQA Air Quality Guidelines (“BAAQMD Guidelines”) set forth methodologies and quantitative significance thresholds that a lead agency may use to estimate and evaluate the significance of a project’s air emissions, see **Table 6, Bay Area Air Quality Management District Regional Significance Thresholds**. The BAAQMD has also established significance thresholds for the excess health risks posed to nearby sensitive receptors, see **Table 7, Health Risk Significance Thresholds**.

**Table 6  
Bay Area Air Quality Management District Regional Significance Thresholds**

Pollutant	Construction-Related	Operational-Related	
	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tpy)
ROG	54	54	10
NOx	54	54	10
PM10	82 (exhaust)	82	15
PM2.5	54 (exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 (1-hour average)	
Fugitive Dust	Best Management Practices		None

Source: BAAQMD. CEQA Guidelines. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

**Table 7  
Health Risk Significance Thresholds**

Health Risks and Hazards	Single Sources Within 1,000-foot Zone of Influence	Combined Sources (Cumulative from all sources within 1,000-foot zone of influences)
Excess Cancer Risk	>10 per one million	>100 per one million
Hazard Index	>1.0	>10.0
Incremental Annual PM2.5	>0.3 ug/m3	>0.8 ug/m3

Source: BAAQMD. CEQA Guidelines. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

## ***Methodology***

Air quality impacts were evaluated in accordance with the methodologies recommended by CARB and the BAAQMD. Where criteria air pollutant quantification was required, emissions modeled using the California Emissions Estimator Model version 2016.3.2 (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. Average daily emissions from Project construction and operation were calculated, including both on-site and off-site activities.

Project construction and redevelopment activities will utilize heavy-duty construction equipment that will emit DPM. Even though construction will occur primarily within the building, due to the proximity of sensitive receptors, a health risk analysis (HRA) was prepared to evaluate the risk posed to these receptors based on emissions source strength, meteorological conditions, and receptor location. Pollutant concentrations will be estimated using the U.S. EPA AERMOD dispersion model and human health risks will be estimated using the Hotspots Analysis and Reporting Program (HARP2) Risk Assessment Standalone Tool (RAST).

## **2.5 Project Impacts and Mitigation Measures**

**Impact 1**                      **Would implementation of the proposed Project conflict with or obstruct implementation of any applicable air quality plan? (*Less than Significant*).**

The most recent clean air plan is the Bay Area 2017 Clean Air Plan that was adopted by BAAQMD in April 2017. The Plan includes control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. Projects that are consistent with the development of a regional or local air quality plan are considered not to conflict with the attainment of air quality standards identified in the plan.

Consistency with the air quality plan can be determined through evaluation of project-related air quality impacts and demonstration that project-related emissions would not increase the frequency or severity of existing violations or contribute to a new violation of the national ambient air quality standards. The BAAQMD CEQA Air Quality Guidelines include thresholds of significance that are applied to evaluate regional impacts of project-specific emissions of air pollutants and their impact on BAAQMD's ability to reach attainment. Emissions that are above these thresholds have not been accommodated in the air quality plans and would not be consistent with the air quality plans. The proposed Project would not conflict with the latest Clean Air planning efforts since emissions would not exceed BAAQMD thresholds (see **Table 9** and **Table 10** in **Impact 2**). Therefore, the Project would not conflict with or obstruct implementation of the applicable air quality plan and no mitigation is necessary.

**Impact 2**                      **Would implementation of the proposed Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard? (*Less than Significant*).**

A project may have a significant impact if project-related emissions would exceed federal, State, or regional standards or thresholds, or if project-related emissions would substantially contribute to an existing or project air quality violation. To determine project significance, emissions were compared to the BAAQMD construction and operational air quality thresholds.

**Regional Construction Significance Analysis**

Construction associated with the proposed Project would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the Project area include ozone-precursor pollutants (i.e., ROG and NOx), PM10, and PM2.5. Construction-generated emissions are short term and of temporary duration, lasting only if construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the BAAQMD’s thresholds of significance.

Construction results in the temporary generation of emissions resulting from interior demolition, construction, and motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the appropriate application of water.

The duration of construction activities associated with the proposed Project is estimated to last approximately 8 months. The construction schedule used to estimate Project construction emissions is provided in **Table 8, Proposed Construction Schedule**.

**Table 8  
Proposed Construction Schedule**

Phase	Start Date	End Date
Demolition	1/3/2022	1/17/2022
Building Construction	1/18/2022	7/29/2022
Paving	8/1/2022	8/15/2022
Architectural Coating	8/16/2022	8/31/2022

*Source: Impact Sciences 2021, see Attachment A.*

Construction-generated emissions associated with the proposed Project were calculated using the CARB-approved CalEEMod model. CalEEMod is designed to model construction and operational emissions for land use development projects. The model incorporates typical construction requirements such as construction equipment, demolition debris, and hauling trips. Construction of the proposed Project would involve minor interior wall demolition, paving for the playground on the western side of the building, constructing interior walls for the classrooms and accessory rooms, and painting the interior and exterior walls. The assumptions used within CalEEMod were based on model defaults as well as conservative estimates for a construction project that will primarily occur within an existing structure. It was conservatively estimated that the proposed Project would demolish at most 11,000 square feet of interior walls based on the perimeter and height of the building.<sup>11</sup> In addition, default construction equipment for the demolition, building construction, paving, and architectural coating phases of construction were assumed. However, since all building construction will be internal, cranes were removed from the model’s default list as they would not be necessary to complete the Project. In addition, rubber-tired dozers during the construction phase were replaced with forklifts as rubber-tired dozers are typically used for earth and dirt moving that would not be required.

Predicted maximum daily construction-generated emissions for the proposed Project are summarized in **Table 9, Construction-Related Criteria Pollutant Emissions.**

**Table 9  
Construction-Related Criteria Pollutant Emissions**

Construction Year	ROG	NOx	PM10 Exhaust	PM2.5 Exhaust
Average Annual Emissions (Tons/Year)	0.278	0.470	0.024	0.022
Average Daily Emissions (lbs/year) <sup>1</sup>	2.32	3.92	0.20	0.18
<b>Thresholds (lbs/day)</b>	<b>54</b>	<b>54</b>	<b>82</b>	<b>54</b>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

*Source: Impact Sciences, CalEEMod modeling, 2021. See Appendix A.*

<sup>1</sup> *Based on a 8-month construction schedule.*

### Regional Operational Significance Analysis

Operational air pollutant emissions would be generated primarily by automobile travel to drop off and pick up students from the Project site. Other sources of operational emissions include architectural coatings

<sup>11</sup> The building is assumed to be approximately 147 feet by 300 feet – consistent with the square footage of the Project. Therefore, the perimeter is approximately 894 feet. It was assumed that the building has an internal height of 12 feet, for a total of approximately 10,728 square feet that will be demolished. Therefore, modeling the Project assuming 11,000 square feet of demolished floor area provides a conservative estimate of the air quality emissions.



and maintenance products, consumer products, and energy use of the Project site, including the combustion of natural gas for heating. CalEEMod was used to estimate emissions from operation of the proposed Project assuming full build out and to estimate emissions from operation of the existing commercial building on the Project site. The net operational air quality emissions were compared against BAAQMD thresholds to determine project significance.

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates used by CalEEMod. The earliest year the Project could possibly be constructed and fully occupied would be 2022. Emissions associated with build-out later than 2022 would be lower as newer vehicles are required to meet increasingly more stringent emissions standards, while older, more polluting, vehicles are less utilized.

CalEEMod allows the user to enter specific vehicle trip generation rates. According to the Transportation Impact Analysis prepared by Hexagon Consulting, the proposed project will generate approximately 1,967 vehicle trips per day. However, the existing commercial retail building on the project site generates approximately 1,664 trips per day. As a result, the proposed project will generate a net increase of 303 trips per day.

The net long-term operational emissions attributable to the proposed project are summarized in **Table 10, Long-Term Operational Emissions**.

**Table 10**  
**Long-Term Operational Emissions**

<b>Emissions Source</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Area Source (tons/year)	0.196	0.00004	0.00002	0.00002
Energy Source (tons/year)	0.004	0.040	0.003	0.003
Mobile Source (tons/year)	0.292	1.13	0.787	0.2159
Annual Project Operational Emissions (tons/year)	0.492	1.172	0.790	0.219
Existing Annual Operational Emissions (tons/year)	0.486	0.979	0.668	0.183
Net Annual Operational Emissions (tons/year)	0.006	0.193	0.12	0.036
<b>Annual Thresholds (tons/year)</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>10</b>
<i>Exceed Thresholds?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Average Daily Emissions (pounds/day) <sup>1</sup>	2.69	6.42	4.33	1.20
Existing Average Daily Emissions (pounds/day) <sup>1</sup>	2.66	5.36	3.66	1.00
Net Average Daily Emissions (pounds/day)	0.03	1.06	0.67	0.20
<b>Thresholds (lbs/day)<sup>1</sup></b>	<b>54</b>	<b>54</b>	<b>82</b>	<b>54</b>
<i>Exceed Threshold?</i>				

Source: Impact Sciences, CalEEMod modeling, 2021. See Appendix A.

<sup>1</sup> Based on a 365-day operational schedule.

As shown in **Table 9** and **Table 10**, neither the project's construction nor net operational emissions would exceed the BAAQMD's thresholds for any criteria air pollutants. Furthermore, as for cumulative construction and operational impacts, the proposed project will not produce cumulatively considerable emissions of nonattainment pollutants since the project will not exceed regional thresholds. As such, the proposed project will result in a less than significant impact.

**Impact 3**                      **Would implementation of the proposed Project expose sensitive receptors to substantial pollutant concentrations? (*Less than Significant*).**

### **Construction**

Temporary project impacts related to health risk can occur from project construction activity, which would generate dust and equipment exhaust that could affect nearby sensitive receptors. Construction of the proposed Project would include internal building construction, paving, application of architectural coatings, and interior finishing. Construction equipment and associated heavy-duty truck trips generate exhaust which contains diesel particulate matter (DPM), known as a toxic air contaminant (TAC).

Construction emissions were estimated from CalEEMod and dispersion modeling was conducted to predict the off-site concentration resulting from project construction, so that lifetime excess cancer risk and non-cancer health risk could be predicted. The HRA was conducted following methods in the Office of Environmental Health Hazard Assessment's (OEHHA) Guidance Manual for Preparation of Health Risk Assessments and BAAQMD's CEQA Guidance. **Table 5** discloses the BAAQMD's significance thresholds for health risks.

The BAAQMD recommends evaluating health risk posed to sensitive receptors (which are defined as residences, day care centers, schools and elderly facilities) from DPM within 1,000 feet radius of a project site (BAAQMD 2017). There are many residential neighborhoods to the north, east, and west of the Project site. The closest sensitive receptors include:

- Silverlake Drive residences at the northern end of the Project limits.
- Meadowhaven Way residences at the western end of the Project limits.
- Woodward Drive residences approximately 215 feet east of the Project site.

The health risks were evaluated for a hypothetical maximally exposed individual (MEI) located near the Project site. The hypothetical MEI is an individual assumed to be located where the highest concentrations of air pollutants are predicted to occur as a result of project construction.

**Cancer Risk.** The CalEEMod model provided total annual PM<sub>2.5</sub> exhaust emissions (assumed to be DPM) from off-road construction equipment used during project construction and exhaust emissions from on-road vehicles (haul trucks, vendor trucks, and worker vehicles). Fugitive dust PM<sub>2.5</sub> emissions were also computed in CalEEMod and included in this analysis.

The US EPA AERMOD dispersion model was used to predict concentrations of DPM and PM<sub>2.5</sub> at sensitive receptors within 1,000 feet of the Project site, as recommended by the BAAQMD (BAAQMD, 2017). To model emissions, a release height of 3 meters was chosen to represent the release height of construction equipment. Emissions from off-road construction equipment and on-road vehicle travel were distributed throughout the modeled area source. The modeling used the latest available 5-year meteorological data set (2009 to 2014) from the San Jose International Airport prepared for use with the AERMOD model by CARB. Annual DPM and PM<sub>2.5</sub> concentrations from construction activities were calculated at nearby sensitive receptor locations within the default receptor height. The concentration of DPM at the nearest sensitive receptor, located on Silverlake Drive to the north of the Project site, estimated in AERMOD was utilized to calculate the cancer risk in accordance with OEHHA guidelines.

The current OEHHA guidance recommends that cancer risks be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, it recommends evaluating the risks for the third trimester of pregnancy to age zero (third trimester exposure), ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 30 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposure, an ASF of 3 for child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilograms of body weight per day (L/kg-day). As recommended by the BAAQMD, 95th percentile breathing rates are used for the third trimester and infant exposure, and 80th percentile breathing rates are used for child and adult exposure. These age-specific breathing rates are 361 L/kg-day for the third trimester receptor, 1,090 L/kg-day for the infant receptors, 572 L/kg-day for child receptors, and 261 L/kg-day for adult receptors. Additionally, age-specific fraction of time at home (FAH) values were used in this analysis. According to OEHHA, FAH values of 0.85 should be used for the third trimester and infant receptors, 0.72 for the child receptors, and 0.73 for adult receptors. Finally, it was assumed that each receptor would have an exposure duration of 350 days per year, consistent with OEHHA guidelines (OEHHA 2015). According to OEHHA, the cancer risk for a residential receptor is assumed to start in the third trimester of life.

The California Air Resources Board recommends the Hotspots Analysis and Reporting Program (HARP) to calculate the excess cancer risk. HARP incorporates OEHHA 2015 guidance to calculate the risk posed to receptors from facility operations.

During the eight months of construction, the maximum DPM concentration from construction activities would occur at a receptor adjacent to the north of the site. Third trimester and the first 0.42 years of infant exposure were conservatively assumed to occur at this residence through the construction period. Results of this assessment indicate that the maximum excess residential cancer risk posed to both the receptors over the approximately eight months of construction would be a total of 6.95 in one million and would not exceed BAAQMD thresholds. It should be noted that our health risk assumes that construction will occur outside. As a result, this assessment is overly conservative as most construction will occur within the existing structure and pollutants will be not carried by the wind to nearby residential receptors.

**Non-Cancer Health Hazards.** Sensitive groups can also develop non-cancer health risks from exposure to TACs. Non-cancer health risks are evaluated from the ratio of TAC concentrations generated by the Project and a reference exposure level (REL). A REL is the concentration of a given pollutant in the air at or below which no adverse health effects are anticipated for sensitive groups (OEHHA 2015). RELs are based on the most sensitive adverse effects reported in the medical and toxicological literature. The chronic inhalation REL for DPM is 5  $\mu\text{g}/\text{m}^3$  (OEHHA, 2019). The ratio of TAC generated by a project and the REL is referred

to as a hazard quotient/index (HI). According to the BAAQMD, the non-cancer health hazard would be significant if the HI exceeds 1.0.

The maximum computed HI based on the DPM concentration from construction activities of the proposed Project would be 0.020, which is substantially lower than the BAAQMD significance criterion.

**PM2.5 Emissions.** PM2.5 can result from both exhaust emissions and fugitive dust. According to the BAAQMD, the ambient PM2.5 would be significant if its annual average concentration exceeds 0.3 µg/m<sup>3</sup>. As noted above, AERMOD was used to estimate the PM2.5 concentration at the nearest sensitive receptor based on emission estimates from CalEEMod.

Finally, the maximum concentration of PM2.5 resulting from construction activities associated with the proposed Project would be 0.122 µg/m<sup>3</sup>. The results of the health risk are provided in **Table 11, Maximum Health Risk from Construction**, and demonstrate that Project construction would not exceed BAAQMD thresholds and the impact would be less than significant.

**Table 11  
Maximum Health Risk from Construction**

Receptor	Lifetime Excess Cancer Risk (per million)	Annual PM2.5 (ug/m3)**	Hazard Index
Residential Receptor*	6.95	0.122	0.020
<b>Significance Threshold</b>	<b>10</b>	<b>0.3</b>	<b>1.0</b>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>

Source: Impact Sciences, 2021. Attachment A.

\*Residential receptor accounts for the first 0.67 years of life (0.25 years during the third trimester and 0.42 years of the infant stage of life).

\*\* The annual PM2.5 concentration is the sum of DPM and fugitive dust PM2.5 concentrations.

## Operation

Project-operation impacts related to increased health risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors, or by introducing a new sensitive receptor, such as a residential use, in proximity to an existing source of TACs.

The proposed Project does not include any stationary sources of TAC emissions and most project vehicles would operate on gasoline and not diesel, which is the primary source of TACs and DPM. Therefore, operation of the proposed Project would not generate TAC or PM2.5 emissions that could affect the health of the community near the Project site. Furthermore, the Project site does not lie within 1,000 feet of any

stationary sources or major roadways that would expose future students to TAC emissions.<sup>12</sup> As such, the proposed Project would not contribute to human health risk to nearby receptors during operation, and the Project would also not contribute to any cumulative human health risk impact.

**Impact 4**                      **Would implementation of the proposed Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? (*Less than Significant*).**

None of the proposed land uses are associated with equipment or activities that would emit nuisance odors. Furthermore, the Project would be required to comply with the BAAQMD's regulation of odorous substances, which places general limitation on odorous substances and emissions limitations on certain odorous compounds. The proposed school would replace a home improvement retail store and as such, would reduce the use of diesel-fueled delivery trucks and equipment, as well as any organic material associated with gardening material. This would result in a decrease in odorous substances on-site. As a result, the impact would be less than significant.

---

<sup>12</sup> BAAQMD. *Permitted Stationary Sources Risk and Hazards*. Available online at: <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65>.

### **3.0 GREENHOUSE GAS**

#### **3.1 Greenhouse Gas Setting**

Global climate change refers to any significant change in climate measurements, such as temperature, precipitation, or wind, lasting for an extended period (i.e., decades or longer).<sup>13</sup> Climate change may result from:

- Natural factors, such as changes in the sun’s intensity or slow changes in the Earth’s orbit around the sun;
- Natural processes within the climate system (e.g., changes in ocean circulation, reduction in sunlight from the addition of GHGs and other gases to the atmosphere from volcanic eruptions); and
- Human activities that change the atmosphere’s composition (e.g., through burning fossil fuels) and the land surface (e.g., deforestation, reforestation, urbanization, desertification).

In recent decades, changes in climate have caused impacts on natural and human systems on all continents and across the oceans. Impacts are due to observed climate change, irrespective of its cause, indicating the sensitivity of natural and human systems to changing climate.<sup>14</sup> Continuing changes to the global climate system and ecosystems, and to California, are projected to include:

- Rapidly diminishing sea ice and mountain snowpack levels, thereby increasing sea levels and sea surface evaporation rates with a corresponding increase in tropospheric water vapor due to the atmosphere’s ability to hold more water vapor at higher temperatures;<sup>15</sup>
- Rising average global sea levels primarily due to thermal expansion and the melting of glaciers, ice caps, and ice sheets;
- Changing weather patterns, including changes to precipitation, ocean salinity, and wind patterns, and more energetic aspects of extreme weather, including droughts, heavy precipitation, heat waves, extreme cold, and the intensity of tropical cyclones;

---

<sup>13</sup> US EPA. 2013. Overview of Greenhouse Gases. Available online at: <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>. Accessed on January 12, 2021.

<sup>14</sup> Intergovernmental Panel on Climate Change. 2013. “Climate Change 2013: The Physical Science Basis.” Available online at: <http://www.climatechange2013.org/>. Accessed January 13, 2021.

<sup>15</sup> Ibid.

- Changing levels in snowpack, river flow and sea levels indicating that climate change is already affecting California’s water resources;<sup>16</sup>
- Dry seasons that start earlier and end later, evoking more frequent and intense wildland fires;<sup>17</sup> and
- Increasing demand for electricity due to rising temperatures.<sup>18</sup>

The natural process through which heat is retained in the troposphere<sup>19</sup> is called the “greenhouse effect.” Various gases in the Earth’s atmosphere, classified as atmospheric greenhouse gases, play a critical role in determining the Earth’s surface temperature. Solar radiation enters Earth’s atmosphere as short-wave radiation. It travels through the atmosphere without warming it and is absorbed by the Earth’s surface. When the Earth re-emits this radiation back toward space, the radiation changes to long wave radiation. GHGs are transparent to incoming short wave solar radiation but absorb outgoing long wave radiation. As a result, radiation that otherwise would escape back into space is now retained, warming the atmosphere. This phenomenon is known as the greenhouse effect.

### *Greenhouse Gas Compounds*

California State law defines GHGs to include the following six compounds:

- **Carbon Dioxide** (CO<sub>2</sub>) is released to the atmosphere when solid waste, fossil fuels (oil, natural gas, and coal), and wood and wood products are burned. CO<sub>2</sub> emissions from motor vehicles occur during operation of vehicles and operation of air conditioning systems.
- **Methane** (CH<sub>4</sub>) is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from the decomposition of organic waste in solid waste landfills, raising livestock, natural gas and petroleum systems, stationary and mobile combustion, and wastewater treatment.
- **Nitrous Oxide** (N<sub>2</sub>O) is emitted during agricultural and industrial activities, as well as during combustion of solid waste and fossil fuels. N<sub>2</sub>O emissions from motor vehicles generally occur directly from operation of vehicles.

---

<sup>16</sup> California Environmental Protection Agency (Cal EPA). 2010. Climate Action Team Report to Governor Schwarzenegger and the Legislature.

<sup>17</sup> Ibid.

<sup>18</sup> California Environmental Protection Agency (Cal EPA). 2010. Climate Action Team Report to Governor Schwarzenegger and the Legislature.

<sup>19</sup> The troposphere is the bottom layer of the atmosphere, which varies in height from the Earth’s surface from 6 to 7 miles).



- **Hydrofluorocarbons** (HFCs) are one of several high global warming potential (GWP) gases that are not naturally occurring and are generated from industrial processes. HFC (refrigerant) emissions from vehicle air conditioning systems occur due to leakage, losses during recharging, or release from scrapping vehicles at end of their useful life.
- **Perfluorocarbons** (PFCs) are another high GWP gas that are not naturally occurring and are generated in a variety of industrial processes. Emissions of PFCs are generally negligible from motor vehicles.
- **Sulfur Hexafluoride** (SF<sub>6</sub>) is another high GWP gas that is not naturally occurring and is generated in a variety of industrial processes. Emissions of SF<sub>6</sub> are generally negligible from motor vehicles.

### **3.2 Existing Setting**

The Project site is currently a vacated 44,087.9-square-foot, single story commercial building that was used as a home improvement store. Home improvement stores generate GHG emissions from a variety of sources including: customer and worker vehicle trips, operating on-site machinery such as forklifts, watering the gardening department, and lighting. The City of Milpitas already includes several hardware and home improvement stores, including a Home Depot located two miles south of the Project site. The existing GHG emissions generated by the existing store are disclosed in **Impact 1**.

### **3.3 Regulatory Framework**

#### *Federal*

##### **Paris Climate Agreement**

The Paris Climate Agreement is an international treaty on climate change adopted on December 12, 2015. The goal of the agreement is to limit global warming to 1.5 degrees Celsius as compared to pre-industrial levels. Countries will aim to reach global peaking of GHG emissions as soon as possible to achieve a climate neutral world by mid-century. To achieve these reductions, the Paris Climate Agreement works on a 5-year cycle of increasingly ambitious climate action carried out by countries. Therefore, by 2020, countries were required to submit their plans for climate action, known as nationally determined contributions. Additionally, the Agreement provides a framework for financial, technical, and capacity building support to those countries who need it. Developed counties will take a lead in providing financial assistance to other countries since large scale investments are required for GHG mitigation and climate adaptation.<sup>20</sup>

---

<sup>20</sup> United Nations. *The Paris Agreement*. Available online at <https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement>.

The United States joined 190 other countries in the Paris Climate Agreement under the Obama administration in September 2016.<sup>21</sup> Under the Trump administration, the former President announced his intention to withdraw from the Agreement in June 2017 and formally notified the United Nations in November 2019. However, the Agreement requires a year-long waiting period before a formal withdrawal will be recognized. As a result, the United States officially withdrew the Agreement in November 2020.<sup>22</sup> However, on January 20, 2021, President Biden accepted and rejoined the Paris Climate Agreement.<sup>23</sup>

## ***State***

The State of California has implemented a series of greenhouse gas plans and policies aimed at reducing state greenhouse gas emissions. Measures applicable to the Project are summarized below:

### **Executive Order (EO) S-03-05**

On June 1, 2005, EO S-03-05 was issued by Governor Schwarzenegger to set statewide emissions reduction standards. The order required the state to reduce GHG emissions to 1990 levels by 2020 and reduce GHG emissions to 80% below 1990 levels by 2050. EO S-3-05 also calls for the Secretary of California Environmental Protection Agency (Cal/EPA) to be responsible for coordination of state agencies and progress reporting.

### **Assembly Bill (AB) 32**

AB 32 (California Global Warming Solutions Act of 2006) was codified into law in 2006 and codified into law the 2020 GHG emissions targets set by EO S-03-05. AB 32 represents the first enforceable statewide program to limit GHG emissions from all major sectors with penalties for noncompliance.

### **Senate Bill (SB) 32**

SB 32 was signed into law in 2015 and sets into law the mandated reduction targets set in EO B-30-15, which required a reduction in GHG emissions to 40% below the 1990 levels by 2030.

---

<sup>21</sup> The White House. *President Obama: The United States Formally Entered the Paris Agreement*. Available online at: <https://obamawhitehouse.archives.gov/blog/2016/09/03/president-obama-united-states-formally-enters-paris-agreement>.

<sup>22</sup> NPR. *U.S. Officially Leaving Paris Climate Agreement*. Available online at: <https://www.npr.org/2020/11/03/930312701/u-s-officially-leaving-paris-climate-agreement>.

<sup>23</sup> The White House. 2021. *Paris Climate Agreement*. Available online at: <https://www.whitehouse.gov/briefing-room/statements-releases/2021/01/20/paris-climate-agreement/>.

### **CARB's 2017 Final Scoping Plan**

CARB, in collaboration with over twenty state agencies, issued a Final Scoping Plan in 2017 to set a framework for the state to meet the overall reduction goals set in SB 32. The 2017 Scoping Plan identified key sectors of the implementation strategy, which includes improvements in low carbon energy, industry, transportation sustainability, natural and working lands, waste management, and water. Through a combination of data synthesis and modeling, CARB determined that the target statewide 2030 emissions limit is 260 million metric tons of carbon dioxide equivalent (MMTCO<sub>2e</sub>), and that further commitments will need to be made to achieve an additional reduction of 50 MMTCO<sub>2e</sub> beyond current policies and programs. Key elements of the 2017 Update include a proposed 20% reduction in GHG emissions from refineries and an expansion of the Cap-and-Trade program to meet the aggressive 2030 GHG emissions goal.

### ***Local***

#### **City of Milpitas Climate Action Plan**

In 2013, the City of Milpitas adopted a Climate Action Plan (CAP) in 2013 toward the goal of a more sustainable community by reducing GHG emissions. The CAP looks at five key sectors (energy use, vehicle miles, waste production, water usage, and off-road activities) and incorporates best practices to produce a blueprint for achieving GHG emissions reductions in the City to comply with AB 32 and SB 375.<sup>24</sup>

## **3.4 Thresholds and Methodology**

### ***Thresholds of Significance***

The impact analysis provided below is based on the application of the following *CEQA Guidelines* Appendix G, which indicates that a project would have a significant impact on GHG emissions if it would:

- 1) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- 2) Conflict with an applicable plan, policy or regulations adopted for the purpose of reducing the emissions of greenhouse gas emissions.

---

<sup>24</sup> City of Milpitas. 2013. *Climate Action Plan*. Available online at: [http://www.ci.milpitas.ca.gov/pdfs/Climate\\_ActionPlan.pdf](http://www.ci.milpitas.ca.gov/pdfs/Climate_ActionPlan.pdf).

## Methodology

The BAAQMD does not have an adopted threshold of significance for construction-related GHG emissions. However, the BAAQMD recommends quantification and disclosure of GHG construction emissions. Determining the significance of these construction-generated GHG emission impacts is recommended to be made in relation to meeting AB 32 GHG reduction goals, which requires the state to meet 1990 levels of GHG emissions by 2020.

Since GHG emissions are cumulative and construction emission are temporary and short term, it is common practice to amortize the total construction GHG emissions over 30 years to create an annual emissions rate that is combined with the operational GHG emissions for determining significance.

The BAAQMD *CEQA Air Quality Guidelines* provide numeric thresholds for GHG emissions during project operation. A proposed land use development project would not have a significant GHG impact, if operation of the project would meet one of the following thresholds:

- Compliance with a qualified GHG Reduction Strategy;
- Annual emissions less than 1,100 metric tons per year (MT/yr) of CO<sub>2</sub>e; or
- 4.6 metric tons of CO<sub>2</sub>e per service population<sup>25</sup> per year (MT CO<sub>2</sub>e/SP/yr)

As stated above, the City of Milpitas has a CAP, adopted in May 2013, that established the goals and measures to reduce greenhouse gas emissions to meet AB 32 and SB 375 reduction goals.<sup>26</sup> The CAP does not have a specific GHG mass emissions threshold for project-level construction or operation. The City is currently in the process of updating the CAP.<sup>27</sup>

The BAAQMD's *CEQA Guidelines* do not recommend using quantified thresholds for projects that are in a jurisdiction with a qualified GHG reduction plan that addresses emissions associated with the period that the Project would operate. Since the Project will be operational after 2020, neither the City's CAP nor the BAAQMD's thresholds are applicable to the project. However, the Project is proposing to redevelop an existing home improvement store into a 480-student school. School land uses generally have lower emissions from area and waste sources than commercial land uses. Therefore, this assessment quantified

---

<sup>25</sup> According to the BAAQMD's *CEQA Guidelines*, service population is determined by adding the number of residents to the number of jobs estimated for a given point in time.

<sup>26</sup> City of Milpitas. 2013. *Climate Action Plan*. Available online at: [http://www.ci.milpitas.ca.gov/pdfs/Climate\\_ActionPlan.pdf](http://www.ci.milpitas.ca.gov/pdfs/Climate_ActionPlan.pdf).

<sup>27</sup> City of Milpitas. 2013. *Climate Action Plan*. Available online at: <http://www.ci.milpitas.ca.gov/climate-action-plan/>.

the GHG emissions from the existing home improvement store and proposed school to demonstrate a net decrease in GHG emissions.

### **3.5 Project Impacts and Mitigation Measures**

**Impact 1**                      **Would implementation of the proposed Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? (*Less than Significant*).**

Using CalEEMod, Project GHG emissions throughout the construction phases were calculated from off-road equipment usage, hauling vehicles, delivery, and worker vehicle trips to and from the site. The total GHG construction emissions over the approximately 8-month construction duration of the proposed Project would be approximately 88.31 MT CO<sub>2</sub>e. As GHG emissions impact from construction activities would occur over a relatively short time span, it would contribute a relatively small portion of the lifetime GHG emission impact of the proposed Project. The total construction GHG emissions were divided by 30 to determine an annual construction emission rate estimate to be amortized over the Project's first 30 years of operational life, consistent with CEQA analysis across the state. Amortized over a 30-year period, the proposed Project is anticipated to emit approximately 2.94 MT CO<sub>2</sub>e/year.

BAAQMD-recommended CalEEMod was also used to calculate the annual GHG emissions generated by the proposed Project during operation of each of the Project phases. Sources of GHG emissions during operation include emissions from area sources, electricity, mobile sources, waste, and water. Amortized yearly construction emissions were added to operational GHG emissions to calculate the Project's total annual GHG emissions.

Emissions from area sources are based on land use sizes, GHG emission factors for fuel combustion, and the global warming potential (GWP) values for the GHGs emitted. Electricity usage emissions are based on the land uses, default demand factors for the land use, GHG emission factors for the utility provider, and the GWP values of the GHGs emitted. Mobile-source GHG emissions are determined based on the Project's estimated daily trip rate calculated in the Transportation Impact Assessment prepared for the proposed Project. Waste and water emissions are derived from the anticipated water usage and wastewater generated based on the Project's proposed land uses and the associated water demand factors.

As shown in **Table 12, Proposed Project Greenhouse Gas Emissions**, the proposed Project's net GHG operational emissions would be 113 MT CO<sub>2</sub>e/year lower as compared to the existing home improvement store.

**Table 12**  
**Proposed Project Greenhouse Gas Emissions**

Emissions Source	Metric Tons of Carbon Dioxide Equivalent (per year)
Amortized Construction	2.94
Area Sources	0.009
Energy Sources	113
Mobile Sources	807
Waste Sources	44.1
Water Sources	6.48
<b>Total GHG Emissions</b>	<b>973.53</b>
<b>Existing GHG Emissions</b>	<b>1,086.5</b>
<b>Net GHG Emissions</b>	<b>-113</b>

Source: Impact Sciences, 2021. See Attachment A.

As shown in **Table 12**, the Project's combined long-term net operational emissions and amortized construction emissions would be approximately 113 MT CO<sub>2</sub>e/year lower than the existing home improvement store operating on the Project site. As a result, the impact is less than significant.

**Impact 2**                      **Would implementation of the proposed Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? (*Less than Significant*).**

The proposed Project would have a significant impact with respect to GHG emissions and global climate change if it would substantially conflict with the provisions of Section 15064.4(b) of the *State CEQA Guidelines*.

Pursuant to Appendix G of the *CEQA Guidelines*, a significant GHG impact is identified if the Project could conflict with applicable GHG reduction plans, policies, or regulations. Development projects would be subject to complying with SB 32. SB 32 was passed in 2016, which codified a 2030 GHG emissions reduction target of 40% below 1990 levels. CARB issued the 2017 Final Scoping Plan to reflect the target set by Executive Order B-30-15 and codified by SB 32.<sup>28</sup> The 2017 Final Scoping Plan outlines the suite of policy

<sup>28</sup> CARB *California's 2017 Climate Change Scoping Plan*. Available online at: [https://ww3.arb.ca.gov/cc/scopingplan/scoping\\_plan\\_2017.pdf](https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf), accessed February 20, 2020.

measures, regulations, planning efforts, and investments in clean technologies and infrastructure, providing a blueprint to continue driving down GHG emissions and obtain the statewide target.

The proposed Project would not conflict with or otherwise interfere with the statewide GHG reduction measures. The proposed Project would redevelop an existing commercial building to construct a preschool and elementary school near a residential neighborhood. As a result, the proposed Project is anticipated to reduce VMT in the City of Milpitas by encouraging nearby residents to send their children to the Stratford School instead of other preschools or elementary schools in the area. Further, as demonstrated above, the proposed Project would reduce GHG emissions as compared to the existing home improvement store. The Project would also be subject to local policies that may affect emissions of greenhouse gases including the City of Milpitas CAP. Even though the CAP is designed to reduce GHG emissions across the City into 2020, the CAP still provides applicable measures and action items individual projects can undertake to further reduce GHG emissions. The CAP identifies six main Action Areas with specific GHG reductions, including energy, water, transportation and land use, solid waste, and off-road equipment. Many of the measures within the CAP are aimed at residential developments, increasing regional transit access, or actions for the city to undertake. As a result, many of the CAP measures would not be applicable to a new school within a redeveloped building. However, as demonstrated in **Table 13, Consistency with the City’s Climate Action Plan Measures**, the proposed Project would be consistent with the applicable CAP measures.

**Table 13**  
**Consistency with the City’s Climate Action Plan Measures**

<b>Measure</b>	<b>Action</b>	<b>Consistency Analysis</b>
Measure 1.8. Online Energy Monitoring	Encourage the use of smart-grid and Energy Star appliances.	Consistent. The proposed Project will be required to adhere to Title 24 Energy Standards which require Energy Star appliances be installed into new development.
Measure 4.1. Tiered Water Rates	Implement the water-efficient landscaping ordinance and the water conservation ordinance.	Consistent. The existing hardware supply store water both on-site landscaping and plants sold within the landscaping department of the store. The proposed Project will save water as compared to the existing site by removing the landscaping department and converting it into a playground. The proposed project will not add any additional on-site landscaping to the site.
Measure 9.2. Nonresidential Parking Requirements	Revise development standards to create incentives to reduce the minimum parking requirements for new nonresidential buildings in Milpitas.	Consistent. The proposed Project will utilize the existing parking lot that is shared with other commercial land uses. As a result, the proposed project will not
Measure 10.1: Parking for Low-emission Vehicles	Provide material to support developers in obtaining and providing charging stations	Consistent. The proposed Project will redevelop 4 parking stalls to EV charging stations.
Measure 10.1: Parking for Low-emission Vehicles	Pre-wire stalls for electric vehicle charging stations for 2% of new parking capacity.	Consistent. The proposed Project will redevelop 4 parking stalls to EV charging stations.

<b>Measure</b>	<b>Action</b>	<b>Consistency Analysis</b>
Measure 11.1 Waste Diversion	Work with regional partners to increase the diversion of solid waste to 75% as required under Assembly Bill (AB) 341.	Consistent. The proposed Project will be serviced by Republic Services which is required to divert waste consistent with all state and local policies.

*Source: City of Milpitas. 2013. Milpitas Climate Action Plan.*

Therefore, the proposed Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions of greenhouse gases. The impact is less than significant.



## 4.0 REFERENCES

- BAAQMD. 2017. Air Quality Standards and Attainment Status. Available online at: <http://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status#ten>, accessed January 12, 2021.
- BAAQMD. CEQA Guidelines. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).
- BAAQMD. *Permitted Stationary Sources Risk and Hazards*. Available online at: <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65>.
- BAAQMD. *2017 Clean Air Plan*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a\\_-proposed-final-cap-vol-1-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en).
- Bay Area Air Quality Management District. 2017. *CEQA Guidelines*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).
- Bay Area Air Quality Management District. 2017. *CEQA Guidelines*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).
- Bay Area Air Quality Managements District. 2017. *CEQA Guidelines*. Available online at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).
- California Air Resources Board, "Air Quality Data Statistics," <http://www.arb.ca.gov/adam/>. 2021.
- California Air Resources Board. *CARB Identified Toxic Air Contaminants*. Available online at: <https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants>.
- California Air Resources Board. May 2016. Ambient Air Quality Standards. Available online at:
- California Air Resources Board. *Sensitive Receptor Assessment*. Available online at: <https://ww2.arb.ca.gov/capp-resource-center/community-assessment/sensitive-receptor-assessment>.
- California Environmental Protection Agency (Cal EPA). 2010. Climate Action Team Report to Governor Schwarzenegger and the Legislature.
- California Environmental Protection Agency (Cal EPA). 2010. Climate Action Team Report to Governor Schwarzenegger and the Legislature.
- CAPCOA, Health Effects. Available: <http://www.capcoa.org/health-effects/>
- City of Milpitas. 2013. *Climate Action Plan*. Available online at: [http://www.ci.milpitas.ca.gov/\\_pdfs/Climate\\_ActionPlan.pdf](http://www.ci.milpitas.ca.gov/_pdfs/Climate_ActionPlan.pdf).

- City of Milpitas. 2013. *Climate Action Plan*. Available online at: [http://www.ci.milpitas.ca.gov/pdfs/Climate\\_ActionPlan.pdf](http://www.ci.milpitas.ca.gov/pdfs/Climate_ActionPlan.pdf).
- City of Milpitas. 2020. *General Plan 2040*. Available online at: <https://static1.squarespace.com/static/57277b461d07c02f9c2f5c2c/t/5f774ae6e2a5553d6a5b4f97/1601653499170/Milpitas-General-Plan-PublicReviewDraft-8202020.pdf>.
- City of Milpitas. *General Plan Update Project*. Available online at: <http://www.ci.milpitas.ca.gov/planning-documents/general-plan/>.
- <https://www.arb.ca.gov/research/aaqs/aaqs2.pdf>, accessed January 12, 2021.
- Intergovernmental Panel on Climate Change. 2013. "Climate Change 2013: The Physical Science Basis." Available online at: <http://www.climatechange2013.org/>. Accessed January 13, 2021.
- NPR. *U.S. Officially Leaving Paris Climate Agreement*. Available online at: <https://www.npr.org/2020/11/03/930312701/u-s-officially-leaving-paris-climate-agreement>.
- OEHHA. Air Toxics Hot Spot Program Risk Assessment Guidelines. <https://oehha.ca.gov/air/crnrr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>.
- Office of Environmental Health Hazard Assessment and The American Lung Association of California. *Air Pollution and Children's Health*. Available online at: <https://oehha.ca.gov/media/downloads/faqs/kidsair4-02.pdf>.
- The White House. 2021. *Paris Climate Agreement*. Available online at: <https://www.whitehouse.gov/briefing-room/statements-releases/2021/01/20/paris-climate-agreement/>.
- The White House. *President Obama: The United States Formally Entered the Paris Agreement*. Available online at: <https://obamawhitehouse.archives.gov/blog/2016/09/03/president-obama-united-states-formally-enters-paris-agreement>.
- United Nations. *The Paris Agreement*. Available online at <https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement>.
- US EPA. 2013. Overview of Greenhouse Gases. Available online at: <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>. Accessed on January 12, 2021.

**ATTACHMENT A**

---

**CalEEMod, AERMOD, and HARP2 Output Files**

Existing Commercial Use - Santa Clara County, Annual

**Existing Commercial Use**  
**Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Home Improvement Superstore	44.00	1000sqft	1.01	44,087.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Operational emissions only

Land Use - Adjusted land use to reflect size of building.

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Grading -

Vehicle Trips - According to the TIA, the existing site will generate 1,664 trips per day.

Existing Commercial Use - Santa Clara County, Annual

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	44,000.00	44,087.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	ST_TR	56.72	37.75
tblVehicleTrips	SU_TR	55.80	37.75
tblVehicleTrips	WD_TR	30.74	37.75

**2.0 Emissions Summary**

---



Existing Commercial Use - Santa Clara County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	142.6795	142.6795	6.3100e-003	1.3800e-003	143.2498
Mobile	0.2900	0.9743	2.5033	7.4700e-003	0.6609	6.2400e-003	0.6671	0.1769	5.8000e-003	0.1827	0.0000	685.6035	685.6035	0.0260	0.0000	686.2540
Waste						0.0000	0.0000		0.0000	0.0000	99.0434	0.0000	99.0434	5.8533	0.0000	245.3757
Water						0.0000	0.0000		0.0000	0.0000	1.0340	7.1643	8.1983	0.1065	2.5700e-003	11.6286
<b>Total</b>	<b>0.4858</b>	<b>0.9794</b>	<b>2.5080</b>	<b>7.5000e-003</b>	<b>0.6609</b>	<b>6.6300e-003</b>	<b>0.6675</b>	<b>0.1769</b>	<b>6.1900e-003</b>	<b>0.1831</b>	<b>100.0773</b>	<b>835.4480</b>	<b>935.5253</b>	<b>5.9921</b>	<b>3.9500e-003</b>	<b>1,086.5090</b>

Existing Commercial Use - Santa Clara County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1952	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	142.6795	142.6795	6.3100e-003	1.3800e-003	143.2498
Mobile	0.2900	0.9743	2.5033	7.4700e-003	0.6609	6.2400e-003	0.6671	0.1769	5.8000e-003	0.1827	0.0000	685.6035	685.6035	0.0260	0.0000	686.2540
Waste						0.0000	0.0000		0.0000	0.0000	99.0434	0.0000	99.0434	5.8533	0.0000	245.3757
Water						0.0000	0.0000		0.0000	0.0000	1.0340	7.1643	8.1983	0.1065	2.5700e-003	11.6286
<b>Total</b>	<b>0.4858</b>	<b>0.9794</b>	<b>2.5080</b>	<b>7.5000e-003</b>	<b>0.6609</b>	<b>6.6300e-003</b>	<b>0.6675</b>	<b>0.1769</b>	<b>6.1900e-003</b>	<b>0.1831</b>	<b>100.0773</b>	<b>835.4480</b>	<b>935.5253</b>	<b>5.9921</b>	<b>3.9500e-003</b>	<b>1,086.5090</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	

**Acres of Grading (Site Preparation Phase): 0**



Existing Commercial Use - Santa Clara County, Annual

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Existing Commercial Use - Santa Clara County, Annual

**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

---

Existing Commercial Use - Santa Clara County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2900	0.9743	2.5033	7.4700e-003	0.6609	6.2400e-003	0.6671	0.1769	5.8000e-003	0.1827	0.0000	685.6035	685.6035	0.0260	0.0000	686.2540
Unmitigated	0.2900	0.9743	2.5033	7.4700e-003	0.6609	6.2400e-003	0.6671	0.1769	5.8000e-003	0.1827	0.0000	685.6035	685.6035	0.0260	0.0000	686.2540

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Home Improvement Superstore	1,661.00	1,661.00	1,661.00	1,777,219	1,777,219
Total	1,661.00	1,661.00	1,661.00	1,777,219	1,777,219

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Home Improvement Superstore	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

Existing Commercial Use - Santa Clara County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	137.1037	137.1037	6.2000e-003	1.2800e-003	137.6409
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	137.1037	137.1037	6.2000e-003	1.2800e-003	137.6409
NaturalGas Mitigated	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5758	5.5758	1.1000e-004	1.0000e-004	5.6089
NaturalGas Unmitigated	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5758	5.5758	1.1000e-004	1.0000e-004	5.6089

Existing Commercial Use - Santa Clara County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Home Improvement Superstore	104486	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5758	5.5758	1.1000e-004	1.0000e-004	5.6089
<b>Total</b>		<b>5.6000e-004</b>	<b>5.1200e-003</b>	<b>4.3000e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.5758</b>	<b>5.5758</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6089</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Home Improvement Superstore	104486	5.6000e-004	5.1200e-003	4.3000e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.5758	5.5758	1.1000e-004	1.0000e-004	5.6089
<b>Total</b>		<b>5.6000e-004</b>	<b>5.1200e-003</b>	<b>4.3000e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.5758</b>	<b>5.5758</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6089</b>

Existing Commercial Use - Santa Clara County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Home Improvement Superstore	471290	137.1037	6.2000e-003	1.2800e-003	137.6409
<b>Total</b>		<b>137.1037</b>	<b>6.2000e-003</b>	<b>1.2800e-003</b>	<b>137.6409</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Home Improvement Superstore	471290	137.1037	6.2000e-003	1.2800e-003	137.6409
<b>Total</b>		<b>137.1037</b>	<b>6.2000e-003</b>	<b>1.2800e-003</b>	<b>137.6409</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Existing Commercial Use - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1952	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Unmitigated	0.1952	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
<b>Total</b>	<b>0.1952</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>



Existing Commercial Use - Santa Clara County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
<b>Total</b>	<b>0.1952</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Existing Commercial Use - Santa Clara County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.1983	0.1065	2.5700e-003	11.6286
Unmitigated	8.1983	0.1065	2.5700e-003	11.6286

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Home Improvement Superstore	3.25919 / 1.99757	8.1983	0.1065	2.5700e-003	11.6286
<b>Total</b>		<b>8.1983</b>	<b>0.1065</b>	<b>2.5700e-003</b>	<b>11.6286</b>

Existing Commercial Use - Santa Clara County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Home Improvement Superstore	3.25919 / 1.99757	8.1983	0.1065	2.5700e-003	11.6286
<b>Total</b>		<b>8.1983</b>	<b>0.1065</b>	<b>2.5700e-003</b>	<b>11.6286</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	99.0434	5.8533	0.0000	245.3757
Unmitigated	99.0434	5.8533	0.0000	245.3757

Existing Commercial Use - Santa Clara County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	487.92	99.0434	5.8533	0.0000	245.3757
<b>Total</b>		<b>99.0434</b>	<b>5.8533</b>	<b>0.0000</b>	<b>245.3757</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	487.92	99.0434	5.8533	0.0000	245.3757
<b>Total</b>		<b>99.0434</b>	<b>5.8533</b>	<b>0.0000</b>	<b>245.3757</b>

**9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Existing Commercial Use - Santa Clara County, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

---

Stratford School, City of Milpitas - Santa Clara County, Annual

**Stratford School, City of Milpitas**  
**Santa Clara County, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	288.00	Student	0.37	22,000.00	0
Elementary School	192.00	Student	0.37	22,087.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Stratford School, City of Milpitas - Santa Clara County, Annual

Project Characteristics -

Land Use - Land use sizes changed to reflect the size of the building on the project site.

Off-road Equipment - Cranes would not be required for an internal construction.

Off-road Equipment - Rubber Tired Dozers are typically associated with earth and rock movement. Construction takes place within an existing structure and would not require that type of machinery. Replaced with forklift that would be more typical with remodel.

Trips and VMT -

Demolition -

Architectural Coating -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Fleet Mix -

Vehicle Trips - According to the TIA, the proposed project will generate approximately 1,967 trips per day

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	12.00
tblConstructionPhase	NumDays	100.00	139.00
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	5.00	11.00
tblLandUse	LandUseSquareFeet	16,278.58	22,000.00
tblLandUse	LandUseSquareFeet	16,051.85	22,087.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	WD_TR	4.38	4.92
tblVehicleTrips	WD_TR	1.29	2.87

Stratford School, City of Milpitas - Santa Clara County, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2788	0.4701	0.5658	9.9000e-004	0.0209	0.0237	0.0447	5.0200e-003	0.0220	0.0270	0.0000	87.8093	87.8093	0.0202	0.0000	88.3129
<b>Maximum</b>	<b>0.2788</b>	<b>0.4701</b>	<b>0.5658</b>	<b>9.9000e-004</b>	<b>0.0209</b>	<b>0.0237</b>	<b>0.0447</b>	<b>5.0200e-003</b>	<b>0.0220</b>	<b>0.0270</b>	<b>0.0000</b>	<b>87.8093</b>	<b>87.8093</b>	<b>0.0202</b>	<b>0.0000</b>	<b>88.3129</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2788	0.4701	0.5658	9.9000e-004	0.0209	0.0237	0.0447	5.0200e-003	0.0220	0.0270	0.0000	87.8092	87.8092	0.0202	0.0000	88.3129
<b>Maximum</b>	<b>0.2788</b>	<b>0.4701</b>	<b>0.5658</b>	<b>9.9000e-004</b>	<b>0.0209</b>	<b>0.0237</b>	<b>0.0447</b>	<b>5.0200e-003</b>	<b>0.0220</b>	<b>0.0270</b>	<b>0.0000</b>	<b>87.8092</b>	<b>87.8092</b>	<b>0.0202</b>	<b>0.0000</b>	<b>88.3129</b>



Stratford School, City of Milpitas - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.2059	0.2059
2	4-3-2022	7-2-2022	0.2021	0.2021
3	7-3-2022	9-30-2022	0.3238	0.3238
		Highest	0.3238	0.3238

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1956	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003
Energy	4.3800e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	112.5119	112.5119	3.9600e-003	1.4400e-003	113.0405
Mobile	0.2919	1.1320	2.8237	8.8000e-003	0.7796	7.7300e-003	0.7874	0.2087	7.2200e-003	0.2159	0.0000	805.8537	805.8537	0.0303	0.0000	806.6114
Waste						0.0000	0.0000		0.0000	0.0000	17.7820	0.0000	17.7820	1.0509	0.0000	44.0542
Water						0.0000	0.0000		0.0000	0.0000	0.3692	4.8783	5.2475	0.0381	9.4000e-004	6.4814
<b>Total</b>	<b>0.4919</b>	<b>1.1719</b>	<b>2.8616</b>	<b>9.0400e-003</b>	<b>0.7796</b>	<b>0.0108</b>	<b>0.7904</b>	<b>0.2087</b>	<b>0.0103</b>	<b>0.2190</b>	<b>18.1512</b>	<b>923.2524</b>	<b>941.4036</b>	<b>1.1233</b>	<b>2.3800e-003</b>	<b>970.1966</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1956	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003
Energy	4.3800e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	112.5119	112.5119	3.9600e-003	1.4400e-003	113.0405
Mobile	0.2919	1.1320	2.8237	8.8000e-003	0.7796	7.7300e-003	0.7874	0.2087	7.2200e-003	0.2159	0.0000	805.8537	805.8537	0.0303	0.0000	806.6114
Waste						0.0000	0.0000		0.0000	0.0000	17.7820	0.0000	17.7820	1.0509	0.0000	44.0542
Water						0.0000	0.0000		0.0000	0.0000	0.3692	4.8783	5.2475	0.0381	9.4000e-004	6.4814
<b>Total</b>	<b>0.4919</b>	<b>1.1719</b>	<b>2.8616</b>	<b>9.0400e-003</b>	<b>0.7796</b>	<b>0.0108</b>	<b>0.7904</b>	<b>0.2087</b>	<b>0.0103</b>	<b>0.2190</b>	<b>18.1512</b>	<b>923.2524</b>	<b>941.4036</b>	<b>1.1233</b>	<b>2.3800e-003</b>	<b>970.1966</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Stratford School, City of Milpitas - Santa Clara County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	1/17/2022	5	11	
2	Building Construction	Building Construction	1/18/2022	7/29/2022	5	139	
3	Paving	Paving	8/1/2022	8/15/2022	5	11	
4	Architectural Coating	Architectural Coating	8/16/2022	8/31/2022	5	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 66,131; Non-Residential Outdoor: 22,044; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Forklifts	1	1.00	89	0.20
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Stratford School, City of Milpitas - Santa Clara County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	19.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4100e-003	0.0000	5.4100e-003	8.2000e-004	0.0000	8.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0300	0.0394	6.0000e-005		1.6200e-003	1.6200e-003		1.5500e-003	1.5500e-003	0.0000	5.3040	5.3040	9.2000e-004	0.0000	5.3270
<b>Total</b>	<b>3.4000e-003</b>	<b>0.0300</b>	<b>0.0394</b>	<b>6.0000e-005</b>	<b>5.4100e-003</b>	<b>1.6200e-003</b>	<b>7.0300e-003</b>	<b>8.2000e-004</b>	<b>1.5500e-003</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>5.3040</b>	<b>5.3040</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>5.3270</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	6.1400e-003	1.4300e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.8572	1.8572	8.0000e-005	0.0000	1.8593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.1600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3480	0.3480	1.0000e-005	0.0000	0.3482
<b>Total</b>	<b>3.4000e-004</b>	<b>6.2500e-003</b>	<b>2.5900e-003</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>	<b>2.0000e-005</b>	<b>8.8000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.2052</b>	<b>2.2052</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.2075</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4100e-003	0.0000	5.4100e-003	8.2000e-004	0.0000	8.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-003	0.0300	0.0394	6.0000e-005		1.6200e-003	1.6200e-003		1.5500e-003	1.5500e-003	0.0000	5.3040	5.3040	9.2000e-004	0.0000	5.3270
<b>Total</b>	<b>3.4000e-003</b>	<b>0.0300</b>	<b>0.0394</b>	<b>6.0000e-005</b>	<b>5.4100e-003</b>	<b>1.6200e-003</b>	<b>7.0300e-003</b>	<b>8.2000e-004</b>	<b>1.5500e-003</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>5.3040</b>	<b>5.3040</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>5.3270</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	6.1400e-003	1.4300e-003	2.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.8572	1.8572	8.0000e-005	0.0000	1.8593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.1600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3480	0.3480	1.0000e-005	0.0000	0.3482
<b>Total</b>	<b>3.4000e-004</b>	<b>6.2500e-003</b>	<b>2.5900e-003</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>	<b>2.0000e-005</b>	<b>8.8000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.2052</b>	<b>2.2052</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.2075</b>

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0347	0.3429	0.4314	5.9000e-004		0.0198	0.0198		0.0182	0.0182	0.0000	51.9857	51.9857	0.0168	0.0000	52.4060
<b>Total</b>	<b>0.0347</b>	<b>0.3429</b>	<b>0.4314</b>	<b>5.9000e-004</b>		<b>0.0198</b>	<b>0.0198</b>		<b>0.0182</b>	<b>0.0182</b>	<b>0.0000</b>	<b>51.9857</b>	<b>51.9857</b>	<b>0.0168</b>	<b>0.0000</b>	<b>52.4060</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.3 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0473	0.0125	1.3000e-004	3.2000e-003	1.0000e-004	3.3000e-003	9.3000e-004	9.0000e-005	1.0200e-003	0.0000	12.4812	12.4812	5.2000e-004	0.0000	12.4943
Worker	3.8000e-003	2.5300e-003	0.0278	9.0000e-005	0.0105	6.0000e-005	0.0105	2.7900e-003	6.0000e-005	2.8400e-003	0.0000	8.3547	8.3547	1.8000e-004	0.0000	8.3591
<b>Total</b>	<b>5.2800e-003</b>	<b>0.0498</b>	<b>0.0403</b>	<b>2.2000e-004</b>	<b>0.0137</b>	<b>1.6000e-004</b>	<b>0.0138</b>	<b>3.7200e-003</b>	<b>1.5000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>20.8359</b>	<b>20.8359</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>20.8535</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0347	0.3429	0.4314	5.9000e-004		0.0198	0.0198		0.0182	0.0182	0.0000	51.9856	51.9856	0.0168	0.0000	52.4060
<b>Total</b>	<b>0.0347</b>	<b>0.3429</b>	<b>0.4314</b>	<b>5.9000e-004</b>		<b>0.0198</b>	<b>0.0198</b>		<b>0.0182</b>	<b>0.0182</b>	<b>0.0000</b>	<b>51.9856</b>	<b>51.9856</b>	<b>0.0168</b>	<b>0.0000</b>	<b>52.4060</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.3 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0473	0.0125	1.3000e-004	3.2000e-003	1.0000e-004	3.3000e-003	9.3000e-004	9.0000e-005	1.0200e-003	0.0000	12.4812	12.4812	5.2000e-004	0.0000	12.4943
Worker	3.8000e-003	2.5300e-003	0.0278	9.0000e-005	0.0105	6.0000e-005	0.0105	2.7900e-003	6.0000e-005	2.8400e-003	0.0000	8.3547	8.3547	1.8000e-004	0.0000	8.3591
<b>Total</b>	<b>5.2800e-003</b>	<b>0.0498</b>	<b>0.0403</b>	<b>2.2000e-004</b>	<b>0.0137</b>	<b>1.6000e-004</b>	<b>0.0138</b>	<b>3.7200e-003</b>	<b>1.5000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>20.8359</b>	<b>20.8359</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>20.8535</b>

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5600e-003	0.0326	0.0387	6.0000e-005		1.6300e-003	1.6300e-003		1.5200e-003	1.5200e-003	0.0000	5.1683	5.1683	1.5100e-003	0.0000	5.2059
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0326</b>	<b>0.0387</b>	<b>6.0000e-005</b>		<b>1.6300e-003</b>	<b>1.6300e-003</b>		<b>1.5200e-003</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>5.1683</b>	<b>5.1683</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>5.2059</b>



Stratford School, City of Milpitas - Santa Clara County, Annual

**3.4 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6264	0.6264	1.0000e-005	0.0000	0.6267
<b>Total</b>	<b>2.8000e-004</b>	<b>1.9000e-004</b>	<b>2.0800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6264</b>	<b>0.6264</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6267</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5600e-003	0.0326	0.0387	6.0000e-005		1.6300e-003	1.6300e-003		1.5200e-003	1.5200e-003	0.0000	5.1683	5.1683	1.5100e-003	0.0000	5.2059
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0326</b>	<b>0.0387</b>	<b>6.0000e-005</b>		<b>1.6300e-003</b>	<b>1.6300e-003</b>		<b>1.5200e-003</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>5.1683</b>	<b>5.1683</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>5.2059</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.4 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6264	0.6264	1.0000e-005	0.0000	0.6267
<b>Total</b>	<b>2.8000e-004</b>	<b>1.9000e-004</b>	<b>2.0800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6264</b>	<b>0.6264</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6267</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2300e-003	8.4500e-003	0.0109	2.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	1.5320	1.5320	1.0000e-004	0.0000	1.5345
<b>Total</b>	<b>0.2311</b>	<b>8.4500e-003</b>	<b>0.0109</b>	<b>2.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5320</b>	<b>1.5320</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.5345</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.5 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1519	0.1519	0.0000	0.0000	0.1519
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1519</b>	<b>0.1519</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1519</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2300e-003	8.4500e-003	0.0109	2.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	1.5320	1.5320	1.0000e-004	0.0000	1.5344
<b>Total</b>	<b>0.2311</b>	<b>8.4500e-003</b>	<b>0.0109</b>	<b>2.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5320</b>	<b>1.5320</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.5344</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**3.5 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1519	0.1519	0.0000	0.0000	0.1519
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1519</b>	<b>0.1519</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1519</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Stratford School, City of Milpitas - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2919	1.1320	2.8237	8.8000e-003	0.7796	7.7300e-003	0.7874	0.2087	7.2200e-003	0.2159	0.0000	805.8537	805.8537	0.0303	0.0000	806.6114
Unmitigated	0.2919	1.1320	2.8237	8.8000e-003	0.7796	7.7300e-003	0.7874	0.2087	7.2200e-003	0.2159	0.0000	805.8537	805.8537	0.0303	0.0000	806.6114

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	1,416.96	112.32	106.56	1,228,718	1,228,718
Elementary School	551.04	0.00	0.00	867,864	867,864
Total	1,968.00	112.32	106.56	2,096,582	2,096,582

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	14
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Day-Care Center	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Elementary School	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

Stratford School, City of Milpitas - Santa Clara County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.1290	69.1290	3.1300e-003	6.5000e-004	69.3999
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.1290	69.1290	3.1300e-003	6.5000e-004	69.3999
NaturalGas Mitigated	4.3800e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3829	43.3829	8.3000e-004	8.0000e-004	43.6407
NaturalGas Unmitigated	4.3800e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3829	43.3829	8.3000e-004	8.0000e-004	43.6407

Stratford School, City of Milpitas - Santa Clara County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	405680	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6486	21.6486	4.1000e-004	4.0000e-004	21.7773
Elementary School	407284	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7342	21.7342	4.2000e-004	4.0000e-004	21.8634
<b>Total</b>		<b>4.3900e-003</b>	<b>0.0399</b>	<b>0.0335</b>	<b>2.4000e-004</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>43.3829</b>	<b>43.3829</b>	<b>8.3000e-004</b>	<b>8.0000e-004</b>	<b>43.6407</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	405680	2.1900e-003	0.0199	0.0167	1.2000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	21.6486	21.6486	4.1000e-004	4.0000e-004	21.7773
Elementary School	407284	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7342	21.7342	4.2000e-004	4.0000e-004	21.8634
<b>Total</b>		<b>4.3900e-003</b>	<b>0.0399</b>	<b>0.0335</b>	<b>2.4000e-004</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>43.3829</b>	<b>43.3829</b>	<b>8.3000e-004</b>	<b>8.0000e-004</b>	<b>43.6407</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	118580	34.4963	1.5600e-003	3.2000e-004	34.6315
Elementary School	119049	34.6327	1.5700e-003	3.2000e-004	34.7684
<b>Total</b>		<b>69.1290</b>	<b>3.1300e-003</b>	<b>6.4000e-004</b>	<b>69.3999</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	118580	34.4963	1.5600e-003	3.2000e-004	34.6315
Elementary School	119049	34.6327	1.5700e-003	3.2000e-004	34.7684
<b>Total</b>		<b>69.1290</b>	<b>3.1300e-003</b>	<b>6.4000e-004</b>	<b>69.3999</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Stratford School, City of Milpitas - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1956	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003
Unmitigated	0.1956	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003
<b>Total</b>	<b>0.1956</b>	<b>4.0000e-005</b>	<b>4.4200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5800e-003</b>	<b>8.5800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1400e-003</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.1000e-004	4.0000e-005	4.4200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5800e-003	8.5800e-003	2.0000e-005	0.0000	9.1400e-003
<b>Total</b>	<b>0.1956</b>	<b>4.0000e-005</b>	<b>4.4200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.5800e-003</b>	<b>8.5800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.1400e-003</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Stratford School, City of Milpitas - Santa Clara County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.2475	0.0381	9.4000e-004	6.4814
Unmitigated	5.2475	0.0381	9.4000e-004	6.4814

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.698181 / 1.79532	3.1485	0.0229	5.6000e-004	3.8888
Elementary School	0.465454 / 1.19688	2.0990	0.0153	3.8000e-004	2.5925
<b>Total</b>		<b>5.2475</b>	<b>0.0381</b>	<b>9.4000e-004</b>	<b>6.4814</b>

Stratford School, City of Milpitas - Santa Clara County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.698181 / 1.79532	3.1485	0.0229	5.6000e-004	3.8888
Elementary School	0.465454 / 1.19688	2.0990	0.0153	3.8000e-004	2.5925
<b>Total</b>		<b>5.2475</b>	<b>0.0381</b>	<b>9.4000e-004</b>	<b>6.4814</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.7820	1.0509	0.0000	44.0542
Unmitigated	17.7820	1.0509	0.0000	44.0542

Stratford School, City of Milpitas - Santa Clara County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	52.56	10.6692	0.6305	0.0000	26.4325
Elementary School	35.04	7.1128	0.4204	0.0000	17.6217
<b>Total</b>		<b>17.7820</b>	<b>1.0509</b>	<b>0.0000</b>	<b>44.0542</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	52.56	10.6692	0.6305	0.0000	26.4325
Elementary School	35.04	7.1128	0.4204	0.0000	17.6217
<b>Total</b>		<b>17.7820</b>	<b>1.0509</b>	<b>0.0000</b>	<b>44.0542</b>

**9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Stratford School, City of Milpitas - Santa Clara County, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

---

## **AERMOD Output Files (PM2.5 Exhaust and Annual PM2.5)**

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.7.0
** Lakes Environmental Software Inc.
** Date: 2/8/2021
** File: C:\Lakes\AERMOD View\125 N Milpitas\125 N Milpitas.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\125 N Milpitas\125 N Milpitas.isc
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 79517 Milpitas_Population
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "125 N Milpitas.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA1      AREAPOLY      66166.034  4154486.535      4.000
** Source Parameters **
  SRCPARAM PAREA1      1.0722E-07      2.000      12
  AREAVERT PAREA1      66166.034  4154486.535  66164.812  4154490.507
  AREAVERT PAREA1      66190.784  4154501.202  66193.229  4154496.313
  AREAVERT PAREA1      66224.396  4154508.535  66221.952  4154513.119
  AREAVERT PAREA1      66246.091  4154520.452  66259.230  4154480.729
  AREAVERT PAREA1      66125.700  4154430.006  66108.894  4154470.035
  AREAVERT PAREA1      66133.339  4154479.507  66136.395  4154474.618
**
** No Building Downwash **
**
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED

```



```
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "125 N Milpitas.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE C:\Users\kheck\Desktop\724945\724945.SFC
  PROFFILE C:\Users\kheck\Desktop\724945\724945.PFL
  SURFDATA 23293 2009 San_Jose_International_Airport
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 11.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL "125 N Milpitas.AD\AN00GALL.PLT" 31
  SUMMFILE "125 N Milpitas.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM   World Geodetic System 1984
** DTMRGN  Global Definition
** UNITS   m
** ZONE    11
** ZONEINX 0
**
```

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.7.0
** Lakes Environmental Software Inc.
** Date: 2/8/2021
** File: C:\Lakes\AERMOD View\125 N Milpitas\125 N Milpitas.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\125 N Milpitas\125 N Milpitas.isc
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 79517 Milpitas_Population
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "125 N Milpitas.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA1      AREAPOLY      66166.034  4154486.535      4.000
** Source Parameters **
  SRCPARAM PAREA1      1.0722E-07      2.000      12
  AREAVERT PAREA1      66166.034  4154486.535  66164.812  4154490.507
  AREAVERT PAREA1      66190.784  4154501.202  66193.229  4154496.313
  AREAVERT PAREA1      66224.396  4154508.535  66221.952  4154513.119
  AREAVERT PAREA1      66246.091  4154520.452  66259.230  4154480.729
  AREAVERT PAREA1      66125.700  4154430.006  66108.894  4154470.035
  AREAVERT PAREA1      66133.339  4154479.507  66136.395  4154474.618
**
** No Building Downwash **
**
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED

```

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "125 N Milpitas.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE C:\Users\kheck\Desktop\724945\724945.SFC  
PROFFILE C:\Users\kheck\Desktop\724945\724945.PFL  
SURFDATA 23293 2009 San\_Jose\_International\_Airport  
UAIRDATA 23230 2009 OAKLAND/WSO\_AP  
PROFBASE 11.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
\*\* Auto-Generated Plotfiles  
PLOTFILE ANNUAL ALL "125 N Milpitas.AD\AN00GALL.PLT" 31  
SUMMFILE "125 N Milpitas.sum"

OU FINISHED

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
Milpitas.isc \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 09:58:15

PAGE 1  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*  
-----  
-----

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 79517.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 1 Source(s); 1 Source Group(s); and 466  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing

Hours

b for Both Calm

and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 11.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 125 N Milpitas.err

\*\*File for Summary of Results: 125 N Milpitas.sum

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
Milpitas.isc \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 09:58:15

PAGE 2

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* AREAPOLY SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	LOCATION	OF	AREA	BASE	RELEASE	NUMBER
SOURCE	SOURCE	PART.	(GRAMS/SEC		X	Y	ELEV.	HEIGHT	OF	VERTS.
SZ	SCALAR	VARY								
ID	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	BY									

PAREA1	0	0.10722E-06	66166.0	4154486.5	4.0	2.00	12
0.00	YES						

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N

Milpitas.isc \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 09:58:15

PAGE 3  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID SOURCE IDs  
-----

ALL PAREA1 ,  
▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
Milpitas.isc \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 09:58:15

PAGE 4  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID URBAN POP SOURCE IDs  
-----

79517. PAREA1 ,  
▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
Milpitas.isc \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 09:58:15

PAGE 5  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 66313.3, 4154531.4, 4.0, 680.0, 0.0); ( 66314.9,  
4154502.6, 4.0, 680.0, 0.0);  
( 66317.7, 4154473.3, 4.0, 680.0, 0.0); ( 66325.5,  
4154440.6, 4.0, 680.0, 0.0);  
( 66316.9, 4154570.0, 4.0, 680.0, 0.0); ( 66316.9,

4154590.0, 4.0, 680.0, 0.0);  
( 66316.9, 4154610.0, 4.0, 680.0, 0.0); ( 66316.9,  
4154630.0, 4.0, 680.0, 0.0);  
( 66316.9, 4154650.0, 4.0, 680.0, 0.0); ( 66359.4,  
4154488.6, 4.0, 680.0, 0.0);  
( 66384.4, 4154488.6, 4.0, 680.0, 0.0); ( 66359.4,  
4154533.6, 4.0, 680.0, 0.0);  
( 66384.4, 4154533.6, 4.0, 680.0, 0.0); ( 66359.4,  
4154578.6, 4.0, 680.0, 0.0);  
( 66384.4, 4154578.6, 4.0, 680.0, 0.0); ( 66359.4,  
4154623.6, 4.0, 680.0, 0.0);  
( 66384.4, 4154623.6, 4.0, 680.0, 0.0); ( 66368.7,  
4154451.1, 4.0, 680.0, 0.0);  
( 66404.6, 4154460.0, 4.0, 680.0, 0.0); ( 66411.8,  
4154617.2, 4.0, 680.0, 0.0);  
( 66412.9, 4154580.7, 4.0, 680.0, 0.0); ( 66446.2,  
4154610.0, 4.0, 680.0, 0.0);  
( 66445.1, 4154571.3, 4.0, 680.0, 0.0); ( 66479.4,  
4154597.3, 4.0, 680.0, 0.0);  
( 66414.1, 4154542.5, 4.0, 680.0, 0.0); ( 66435.6,  
4154504.8, 4.0, 680.0, 0.0);  
( 66447.3, 4154543.6, 4.0, 680.0, 0.0); ( 66482.7,  
4154546.4, 4.0, 680.0, 0.0);  
( 66504.3, 4154586.2, 4.0, 680.0, 0.0); ( 66537.0,  
4154582.9, 4.0, 680.0, 0.0);  
( 66475.5, 4154504.3, 4.0, 680.0, 0.0); ( 66517.0,  
4154537.5, 4.0, 680.0, 0.0);  
( 66450.6, 4154470.5, 4.0, 680.0, 0.0); ( 66477.2,  
4154479.9, 4.0, 680.0, 0.0);  
( 66516.5, 4154495.4, 4.5, 680.0, 0.0); ( 66535.9,  
4154519.2, 4.5, 680.0, 0.0);  
( 66554.7, 4154544.1, 4.4, 680.0, 0.0); ( 66563.0,  
4154569.1, 4.7, 680.0, 0.0);  
( 66600.1, 4154512.6, 5.0, 680.0, 0.0); ( 66594.0,  
4154512.0, 5.0, 680.0, 0.0);  
( 66602.8, 4154502.1, 5.0, 680.0, 0.0); ( 66597.3,  
4154500.4, 5.0, 680.0, 0.0);  
( 66588.4, 4154510.4, 5.0, 680.0, 0.0); ( 66583.5,  
4154509.8, 5.0, 680.0, 0.0);  
( 66578.5, 4154508.2, 5.0, 680.0, 0.0); ( 66572.4,  
4154506.5, 5.0, 680.0, 0.0);  
( 66564.1, 4154505.9, 5.0, 680.0, 0.0); ( 66565.2,  
4154497.1, 5.0, 680.0, 0.0);  
( 66570.7, 4154497.1, 5.0, 680.0, 0.0); ( 66577.4,  
4154498.2, 5.0, 680.0, 0.0);  
( 66582.4, 4154499.3, 5.0, 680.0, 0.0); ( 66589.6,  
4154499.9, 5.0, 680.0, 0.0);  
( 66605.1, 4154575.7, 5.0, 680.0, 0.0); ( 66600.6,  
4154570.2, 5.0, 680.0, 0.0);  
( 66596.2, 4154564.6, 5.0, 680.0, 0.0); ( 66592.3,

4154556.9, 5.0, 680.0, 0.0);  
 ( 66588.4, 4154549.7, 5.0, 680.0, 0.0); ( 66584.0,  
 4154545.8, 5.0, 680.0, 0.0);  
 ( 66590.1, 4154541.4, 5.0, 680.0, 0.0); ( 66595.1,  
 4154539.7, 5.0, 680.0, 0.0);  
 ( 66600.6, 4154545.8, 5.0, 680.0, 0.0); ( 66602.8,  
 4154552.4, 5.0, 680.0, 0.0);  
 ( 66607.3, 4154559.6, 5.0, 680.0, 0.0); ( 66611.1,  
 4154567.4, 5.0, 680.0, 0.0);  
 ( 66615.6, 4154572.9, 5.0, 680.0, 0.0); ( 66628.3,  
 4154502.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154502.0, 5.2, 680.0, 0.0); ( 66628.3,  
 4154507.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154507.0, 5.2, 680.0, 0.0); ( 66624.4,  
 4154512.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154512.0, 5.1, 680.0, 0.0); ( 66624.4,  
 4154517.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154517.0, 5.1, 680.0, 0.0); ( 66624.4,  
 4154522.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154522.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154527.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154527.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154532.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154532.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154537.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154537.0, 5.0, 680.0, 0.0); ( 66081.9,  
 4154382.5, 4.0, 680.0, 0.0);  
 ( 66090.7, 4154385.3, 4.0, 680.0, 0.0); ( 66107.3,  
 4154381.4, 4.0, 680.0, 0.0);  
 ( 66110.1, 4154374.7, 4.0, 680.0, 0.0); ( 66115.7,  
 4154356.5, 4.0, 680.0, 0.0);  
 ( 66120.6, 4154347.1, 4.0, 680.0, 0.0); ( 66112.9,  
 4154366.4, 4.0, 680.0, 0.0);  
 ( 66127.3, 4154338.8, 4.0, 680.0, 0.0); ( 66097.9,  
 4154368.6, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 66099.6, 4154362.0, 4.0, 680.0, 0.0); ( 66102.9,  
 4154354.8, 4.0, 680.0, 0.0);  
 ( 66105.1, 4154348.2, 4.0, 680.0, 0.0); ( 66108.4,



4154341.5, 4.0, 680.0, 0.0);  
( 66068.6, 4154435.1, 4.0, 680.0, 0.0); ( 66074.7,  
4154437.3, 4.0, 680.0, 0.0);  
( 66081.9, 4154439.0, 4.0, 680.0, 0.0); ( 66091.3,  
4154441.7, 4.0, 680.0, 0.0);  
( 66096.8, 4154442.8, 4.0, 680.0, 0.0); ( 66081.3,  
4154419.6, 4.0, 680.0, 0.0);  
( 66088.0, 4154421.8, 4.0, 680.0, 0.0); ( 66094.6,  
4154425.1, 4.0, 680.0, 0.0);  
( 66101.8, 4154426.2, 4.0, 680.0, 0.0); ( 66045.9,  
4154305.0, 4.0, 680.0, 0.0);  
( 66054.2, 4154308.3, 4.0, 680.0, 0.0); ( 66062.5,  
4154312.7, 4.0, 680.0, 0.0);  
( 66071.9, 4154317.2, 4.0, 680.0, 0.0); ( 66047.6,  
4154362.0, 4.0, 680.0, 0.0);  
( 66048.7, 4154355.4, 4.0, 680.0, 0.0); ( 66050.9,  
4154348.2, 4.0, 680.0, 0.0);  
( 66054.2, 4154341.0, 4.0, 680.0, 0.0); ( 66058.1,  
4154333.8, 4.0, 680.0, 0.0);  
( 66059.2, 4154327.7, 4.0, 680.0, 0.0); ( 66032.1,  
4154360.3, 4.0, 680.0, 0.0);  
( 66034.3, 4154351.5, 4.0, 680.0, 0.0); ( 66037.6,  
4154345.4, 4.0, 680.0, 0.0);  
( 66040.9, 4154339.3, 4.0, 680.0, 0.0); ( 66045.3,  
4154331.0, 4.0, 680.0, 0.0);  
( 66047.6, 4154323.2, 4.0, 680.0, 0.0); ( 66052.0,  
4154381.4, 4.0, 680.0, 0.0);  
( 66058.6, 4154381.4, 4.0, 680.0, 0.0); ( 66019.3,  
4154369.8, 4.0, 680.0, 0.0);  
( 66025.4, 4154372.0, 4.0, 680.0, 0.0); ( 66032.1,  
4154373.6, 4.0, 680.0, 0.0);  
( 66036.5, 4154375.3, 4.0, 680.0, 0.0); ( 66054.8,  
4154421.8, 4.0, 680.0, 0.0);  
( 66047.6, 4154422.9, 4.0, 680.0, 0.0); ( 66040.9,  
4154419.6, 4.0, 680.0, 0.0);  
( 66034.8, 4154417.9, 4.0, 680.0, 0.0); ( 66021.5,  
4154415.1, 4.0, 680.0, 0.0);  
( 66013.8, 4154415.1, 4.0, 680.0, 0.0); ( 66005.5,  
4154417.4, 4.0, 680.0, 0.0);  
( 65997.2, 4154419.6, 4.0, 680.0, 0.0); ( 66056.4,  
4154489.3, 4.0, 680.0, 0.0);  
( 66058.6, 4154481.6, 4.0, 680.0, 0.0); ( 66061.4,  
4154472.7, 4.0, 680.0, 0.0);  
( 66063.1, 4154463.3, 4.0, 680.0, 0.0); ( 66067.5,  
4154455.0, 4.0, 680.0, 0.0);  
( 66028.2, 4154433.4, 4.0, 680.0, 0.0); ( 66034.3,  
4154432.9, 4.0, 680.0, 0.0);  
( 66040.4, 4154435.1, 4.0, 680.0, 0.0); ( 66047.6,  
4154436.2, 4.0, 680.0, 0.0);  
( 66000.5, 4154435.1, 4.0, 680.0, 0.0); ( 65967.8,

4154569.6, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154560.2, 4.0, 680.0, 0.0); ( 65996.1,  
 4154443.9, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154548.6, 4.0, 680.0, 0.0); ( 65970.0,  
 4154538.1, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154526.4, 4.0, 680.0, 0.0); ( 65971.2,  
 4154513.1, 4.0, 680.0, 0.0);  
 ( 65974.5, 4154501.0, 4.0, 680.0, 0.0); ( 65976.7,  
 4154491.0, 4.0, 680.0, 0.0);  
 ( 65980.0, 4154483.2, 4.0, 680.0, 0.0); ( 65984.4,  
 4154473.3, 4.0, 680.0, 0.0);  
 ( 65988.9, 4154463.9, 4.0, 680.0, 0.0); ( 65992.2,  
 4154453.9, 4.0, 680.0, 0.0);  
 ( 65932.4, 4154554.7, 4.0, 680.0, 0.0); ( 65943.5,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 65956.8, 4154553.6, 4.0, 680.0, 0.0); ( 65955.7,  
 4154540.3, 4.0, 680.0, 0.0);  
 ( 65956.8, 4154533.6, 4.0, 680.0, 0.0); ( 66027.6,  
 4154498.8, 4.0, 680.0, 0.0);  
 ( 66023.2, 4154506.5, 4.0, 680.0, 0.0); ( 66020.4,  
 4154516.5, 4.0, 680.0, 0.0);  
 ( 66017.7, 4154527.0, 4.0, 680.0, 0.0); ( 66014.9,  
 4154535.8, 4.0, 680.0, 0.0);  
 ( 66013.8, 4154545.3, 4.0, 680.0, 0.0); ( 66012.7,  
 4154554.1, 4.0, 680.0, 0.0);  
 ( 66011.0, 4154561.9, 4.0, 680.0, 0.0); ( 66009.9,  
 4154571.8, 4.0, 680.0, 0.0);  
 ( 66007.7, 4154583.5, 4.0, 680.0, 0.0); ( 66005.5,  
 4154595.6, 4.0, 680.0, 0.0);  
 ( 65999.9, 4154606.1, 4.0, 680.0, 0.0); ( 65963.4,  
 4154584.0, 4.0, 680.0, 0.0);  
 ( 65957.9, 4154594.5, 4.0, 680.0, 0.0); ( 65950.1,  
 4154606.7, 4.0, 680.0, 0.0);  
 ( 65951.2, 4154617.8, 4.0, 680.0, 0.0); ( 65953.4,  
 4154622.2, 4.0, 680.0, 0.0);  
 ( 65965.6, 4154625.5, 4.0, 680.0, 0.0); ( 65973.4,  
 4154623.3, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

PAGE 7

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 65980.0, 4154621.7, 4.0, 680.0, 0.0); ( 65987.2,

4154617.8, 4.0, 680.0, 0.0);  
( 66040.9, 4154507.6, 4.0, 680.0, 0.0); ( 66038.7,  
4154514.2, 4.0, 680.0, 0.0);  
( 66033.2, 4154523.7, 4.0, 680.0, 0.0); ( 66030.9,  
4154535.3, 4.0, 680.0, 0.0);  
( 66028.7, 4154548.6, 4.0, 680.0, 0.0); ( 66027.6,  
4154560.2, 4.0, 680.0, 0.0);  
( 66024.9, 4154571.8, 4.0, 680.0, 0.0); ( 66021.0,  
4154585.7, 4.0, 680.0, 0.0);  
( 66016.6, 4154600.1, 4.0, 680.0, 0.0); ( 66011.6,  
4154612.8, 4.0, 680.0, 0.0);  
( 65918.6, 4154566.8, 4.0, 680.0, 0.0); ( 65926.9,  
4154570.7, 4.0, 680.0, 0.0);  
( 65935.2, 4154571.8, 4.0, 680.0, 0.0); ( 65943.5,  
4154575.7, 4.0, 680.0, 0.0);  
( 65900.3, 4154620.5, 4.0, 680.0, 0.0); ( 65908.0,  
4154618.9, 4.0, 680.0, 0.0);  
( 65919.1, 4154617.8, 4.0, 680.0, 0.0); ( 65931.3,  
4154614.5, 4.0, 680.0, 0.0);  
( 65901.4, 4154631.1, 4.0, 680.0, 0.0); ( 65908.6,  
4154630.0, 4.0, 680.0, 0.0);  
( 65915.8, 4154628.8, 4.0, 680.0, 0.0); ( 65923.0,  
4154627.2, 4.0, 680.0, 0.0);  
( 65930.2, 4154625.5, 4.0, 680.0, 0.0); ( 65939.0,  
4154625.0, 4.0, 680.0, 0.0);  
( 65947.9, 4154634.4, 4.0, 680.0, 0.0); ( 65952.9,  
4154636.6, 4.0, 680.0, 0.0);  
( 65957.9, 4154637.7, 4.0, 680.0, 0.0); ( 65962.3,  
4154638.8, 4.0, 680.0, 0.0);  
( 65975.6, 4154638.3, 4.0, 680.0, 0.0); ( 65980.0,  
4154635.5, 4.0, 680.0, 0.0);  
( 65986.1, 4154634.4, 4.0, 680.0, 0.0); ( 65991.1,  
4154630.5, 4.0, 680.0, 0.0);  
( 66080.8, 4154521.4, 4.0, 680.0, 0.0); ( 66076.9,  
4154535.8, 4.0, 680.0, 0.0);  
( 66073.6, 4154551.3, 4.0, 680.0, 0.0); ( 66070.2,  
4154567.9, 4.0, 680.0, 0.0);  
( 66067.5, 4154582.9, 4.0, 680.0, 0.0); ( 66063.1,  
4154602.3, 4.0, 680.0, 0.0);  
( 66060.8, 4154617.8, 4.0, 680.0, 0.0); ( 66058.1,  
4154631.1, 4.0, 680.0, 0.0);  
( 66055.9, 4154644.9, 4.0, 680.0, 0.0); ( 66052.0,  
4154659.3, 4.0, 680.0, 0.0);  
( 66106.2, 4154529.2, 4.0, 680.0, 0.0); ( 66100.2,  
4154542.5, 4.0, 680.0, 0.0);  
( 66096.3, 4154556.3, 4.0, 680.0, 0.0); ( 66091.8,  
4154572.9, 4.0, 680.0, 0.0);  
( 66088.5, 4154586.8, 4.0, 680.0, 0.0); ( 66085.8,  
4154606.7, 4.0, 680.0, 0.0);  
( 66083.0, 4154620.5, 4.0, 680.0, 0.0); ( 66080.8,

4154636.0, 4.0, 680.0, 0.0);  
 ( 66076.3, 4154648.8, 4.0, 680.0, 0.0); ( 66071.9,  
 4154664.3, 4.0, 680.0, 0.0);  
 ( 66147.8, 4154547.5, 4.0, 680.0, 0.0); ( 66146.1,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 66145.0, 4154569.6, 4.0, 680.0, 0.0); ( 66143.9,  
 4154584.0, 4.0, 680.0, 0.0);  
 ( 66140.6, 4154598.4, 4.0, 680.0, 0.0); ( 66138.4,  
 4154609.5, 4.0, 680.0, 0.0);  
 ( 66136.1, 4154623.9, 4.0, 680.0, 0.0); ( 66133.9,  
 4154637.2, 4.0, 680.0, 0.0);  
 ( 66132.3, 4154651.0, 4.0, 680.0, 0.0); ( 66130.6,  
 4154664.3, 4.0, 680.0, 0.0);  
 ( 66136.1, 4154672.6, 4.0, 680.0, 0.0); ( 66141.7,  
 4154672.6, 4.0, 680.0, 0.0);  
 ( 66148.3, 4154668.7, 4.0, 680.0, 0.0); ( 66150.5,  
 4154653.8, 4.0, 680.0, 0.0);  
 ( 66155.0, 4154639.9, 4.0, 680.0, 0.0); ( 66156.6,  
 4154624.4, 4.0, 680.0, 0.0);  
 ( 66158.3, 4154612.2, 4.0, 680.0, 0.0); ( 66162.7,  
 4154597.3, 4.0, 680.0, 0.0);  
 ( 66162.2, 4154582.3, 4.0, 680.0, 0.0); ( 66165.5,  
 4154570.2, 4.0, 680.0, 0.0);  
 ( 66166.6, 4154560.8, 4.0, 680.0, 0.0); ( 66169.4,  
 4154553.0, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154558.5, 4.0, 680.0, 0.0); ( 66243.5,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154570.3, 4.0, 680.0, 0.0); ( 66243.5,  
 4154570.3, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154582.0, 4.0, 680.0, 0.0); ( 66243.5,  
 4154582.0, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154593.7, 4.0, 680.0, 0.0); ( 66243.5,  
 4154593.7, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154605.5, 4.0, 680.0, 0.0); ( 66243.5,  
 4154605.5, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154617.2, 4.0, 680.0, 0.0); ( 66243.5,  
 4154617.2, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154628.9, 4.0, 680.0, 0.0); ( 66243.5,  
 4154628.9, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 66211.3, 4154640.6, 4.0, 680.0, 0.0); ( 66243.5,  
4154640.6, 4.0, 680.0, 0.0);  
( 66211.3, 4154652.4, 4.0, 680.0, 0.0); ( 66243.5,  
4154652.4, 4.0, 680.0, 0.0);  
( 66211.3, 4154664.1, 4.0, 680.0, 0.0); ( 66243.5,  
4154664.1, 4.0, 680.0, 0.0);  
( 66211.3, 4154675.8, 4.0, 680.0, 0.0); ( 66243.5,  
4154675.8, 4.0, 680.0, 0.0);  
( 66211.3, 4154687.6, 4.0, 680.0, 0.0); ( 66243.5,  
4154687.6, 4.0, 680.0, 0.0);  
( 66074.1, 4154255.1, 4.0, 680.0, 0.0); ( 66079.1,  
4154259.0, 4.0, 680.0, 0.0);  
( 66085.8, 4154262.9, 4.0, 680.0, 0.0); ( 66092.9,  
4154265.1, 4.0, 680.0, 0.0);  
( 66119.0, 4154275.6, 4.0, 680.0, 0.0); ( 66123.9,  
4154278.4, 4.0, 680.0, 0.0);  
( 66130.6, 4154281.7, 4.0, 680.0, 0.0); ( 66140.6,  
4154286.2, 4.0, 680.0, 0.0);  
( 66110.3, 4154208.8, 4.3, 680.0, 0.0); ( 66092.4,  
4154205.4, 4.0, 680.0, 0.0);  
( 66150.5, 4154208.8, 4.7, 680.0, 0.0); ( 66097.6,  
4154192.3, 4.0, 680.0, 0.0);  
( 66142.5, 4154222.2, 4.2, 680.0, 0.0); ( 66150.5,  
4154222.2, 4.2, 680.0, 0.0);  
( 66110.3, 4154235.6, 4.0, 680.0, 0.0); ( 66118.4,  
4154235.6, 4.0, 680.0, 0.0);  
( 66126.4, 4154235.6, 4.0, 680.0, 0.0); ( 66134.4,  
4154235.6, 4.0, 680.0, 0.0);  
( 66142.5, 4154235.6, 4.0, 680.0, 0.0); ( 66150.5,  
4154235.6, 4.0, 680.0, 0.0);  
( 66126.4, 4154249.0, 4.0, 680.0, 0.0); ( 66134.4,  
4154249.0, 4.0, 680.0, 0.0);  
( 66142.5, 4154249.0, 4.0, 680.0, 0.0); ( 66150.5,  
4154249.0, 4.0, 680.0, 0.0);  
( 66126.4, 4154262.4, 4.0, 680.0, 0.0); ( 66134.4,  
4154262.4, 4.0, 680.0, 0.0);  
( 66142.5, 4154262.4, 4.0, 680.0, 0.0); ( 66150.5,  
4154262.4, 4.0, 680.0, 0.0);  
( 66159.9, 4154229.1, 4.0, 680.0, 0.0); ( 66162.2,  
4154217.5, 4.4, 680.0, 0.0);  
( 66166.6, 4154206.4, 4.8, 680.0, 0.0); ( 66084.1,  
4154219.7, 4.0, 680.0, 0.0);  
( 66090.4, 4154219.7, 4.0, 680.0, 0.0); ( 66096.6,  
4154219.7, 4.0, 680.0, 0.0);  
( 66102.9, 4154219.7, 4.0, 680.0, 0.0); ( 66084.1,  
4154231.9, 4.0, 680.0, 0.0);  
( 66090.4, 4154231.9, 4.0, 680.0, 0.0); ( 66096.6,  
4154231.9, 4.0, 680.0, 0.0);  
( 66102.9, 4154231.9, 4.0, 680.0, 0.0); ( 66084.1,

4154244.1, 4.0, 680.0, 0.0);  
 ( 66090.4, 4154244.1, 4.0, 680.0, 0.0); ( 66096.6,  
 4154244.1, 4.0, 680.0, 0.0);  
 ( 66102.9, 4154244.1, 4.0, 680.0, 0.0); ( 66084.1,  
 4154256.3, 4.0, 680.0, 0.0);  
 ( 66090.4, 4154256.3, 4.0, 680.0, 0.0); ( 66096.6,  
 4154256.3, 4.0, 680.0, 0.0);  
 ( 66175.4, 4154190.9, 5.0, 680.0, 0.0); ( 66121.3,  
 4154149.3, 4.9, 680.0, 0.0);  
 ( 66136.4, 4154149.3, 5.0, 680.0, 0.0); ( 66151.4,  
 4154149.3, 5.0, 680.0, 0.0);  
 ( 66166.5, 4154149.3, 5.0, 680.0, 0.0); ( 66106.2,  
 4154159.3, 4.4, 680.0, 0.0);  
 ( 66121.3, 4154159.3, 4.9, 680.0, 0.0); ( 66136.4,  
 4154159.3, 5.0, 680.0, 0.0);  
 ( 66151.4, 4154159.3, 5.0, 680.0, 0.0); ( 66166.5,  
 4154159.3, 5.0, 680.0, 0.0);  
 ( 66106.2, 4154169.3, 4.3, 680.0, 0.0); ( 66121.3,  
 4154169.3, 4.8, 680.0, 0.0);  
 ( 66136.4, 4154169.3, 5.0, 680.0, 0.0); ( 66151.4,  
 4154169.3, 5.0, 680.0, 0.0);  
 ( 66166.5, 4154169.3, 5.0, 680.0, 0.0); ( 66106.2,  
 4154179.3, 4.3, 680.0, 0.0);  
 ( 66121.3, 4154179.3, 4.8, 680.0, 0.0); ( 66136.4,  
 4154179.3, 5.0, 680.0, 0.0);  
 ( 66151.4, 4154179.3, 5.0, 680.0, 0.0); ( 66166.5,  
 4154179.3, 5.0, 680.0, 0.0);  
 ( 66106.2, 4154189.3, 4.3, 680.0, 0.0); ( 66121.3,  
 4154189.3, 4.8, 680.0, 0.0);  
 ( 66166.5, 4154189.3, 5.0, 680.0, 0.0); ( 66178.2,  
 4154181.0, 5.0, 680.0, 0.0);  
 ( 66176.8, 4154174.3, 5.0, 680.0, 0.0); ( 66179.6,  
 4154164.4, 5.0, 680.0, 0.0);  
 ( 66179.0, 4154161.0, 5.0, 680.0, 0.0); ( 66181.8,  
 4154151.1, 5.0, 680.0, 0.0);  
 ( 66097.1, 4154211.4, 4.0, 680.0, 0.0); ( 66099.9,  
 4154201.5, 4.1, 680.0, 0.0);  
 ( 66143.9, 4154278.4, 4.0, 680.0, 0.0); ( 66146.7,  
 4154272.9, 4.0, 680.0, 0.0);  
 ( 66078.0, 4154244.1, 4.0, 680.0, 0.0); ( 66157.7,  
 4154198.7, 5.0, 680.0, 0.0);

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 66115.7, 4154199.8, 4.6, 680.0, 0.0); ( 66158.8,  
4154241.9, 4.0, 680.0, 0.0);  
( 65913.1, 4154678.1, 4.0, 680.0, 0.0); ( 65925.6,  
4154683.6, 4.0, 680.0, 0.0);  
( 65937.0, 4154683.6, 4.0, 680.0, 0.0); ( 65948.4,  
4154690.3, 4.0, 680.0, 0.0);  
( 65959.7, 4154690.3, 4.0, 680.0, 0.0); ( 65970.0,  
4154685.8, 4.0, 680.0, 0.0);  
( 65981.4, 4154685.8, 4.0, 680.0, 0.0); ( 65992.8,  
4154678.1, 4.0, 680.0, 0.0);  
( 65913.7, 4154703.0, 4.0, 680.0, 0.0); ( 65925.1,  
4154703.0, 4.0, 680.0, 0.0);  
( 65935.9, 4154708.0, 4.0, 680.0, 0.0); ( 65947.3,  
4154708.0, 4.0, 680.0, 0.0);  
( 65958.6, 4154708.0, 4.0, 680.0, 0.0); ( 65970.0,  
4154708.0, 4.0, 680.0, 0.0);  
( 65982.5, 4154703.6, 4.0, 680.0, 0.0); ( 65993.9,  
4154703.6, 4.0, 680.0, 0.0);  
( 66011.6, 4154675.9, 4.0, 680.0, 0.0); ( 66028.2,  
4154671.5, 4.0, 680.0, 0.0);  
( 66038.7, 4154669.3, 4.0, 680.0, 0.0); ( 66007.7,  
4154700.3, 4.0, 680.0, 0.0);  
( 66021.0, 4154695.8, 4.0, 680.0, 0.0); ( 66034.3,  
4154690.9, 4.0, 680.0, 0.0);  
( 66048.1, 4154688.6, 4.0, 680.0, 0.0); ( 66063.1,  
4154682.6, 4.0, 680.0, 0.0);  
( 65899.2, 4154699.7, 4.0, 680.0, 0.0); ( 65899.7,  
4154674.2, 4.0, 680.0, 0.0);  
( 65887.6, 4154693.6, 4.0, 680.0, 0.0); ( 65886.4,  
4154670.4, 4.0, 680.0, 0.0);  
( 65873.2, 4154677.0, 4.0, 680.0, 0.0); ( 65864.6,  
4154697.3, 4.0, 680.0, 0.0);  
( 65881.8, 4154705.1, 4.0, 680.0, 0.0); ( 65858.5,  
4154717.3, 4.0, 680.0, 0.0);  
( 65878.5, 4154717.3, 4.0, 680.0, 0.0); ( 65850.7,  
4154734.6, 4.0, 680.0, 0.0);  
( 65869.1, 4154734.6, 4.0, 680.0, 0.0); ( 65858.5,  
4154757.3, 4.0, 680.0, 0.0);  
( 65850.3, 4154749.0, 4.0, 680.0, 0.0); ( 65877.3,  
4154743.6, 4.0, 680.0, 0.0);  
( 65874.6, 4154762.9, 4.0, 680.0, 0.0); ( 65887.8,  
4154748.1, 4.0, 680.0, 0.0);  
( 65887.9, 4154766.9, 4.0, 680.0, 0.0); ( 65899.2,  
4154749.5, 4.0, 680.0, 0.0);  
( 65915.2, 4154755.6, 4.0, 680.0, 0.0); ( 65932.4,  
4154760.6, 4.0, 680.0, 0.0);  
( 65949.5, 4154760.6, 4.0, 680.0, 0.0); ( 65966.6,

4154760.6, 3.9, 680.0, 0.0);  
 ( 65983.8, 4154760.6, 3.7, 680.0, 0.0); ( 66003.1,  
 4154756.7, 3.2, 680.0, 0.0);  
 ( 66019.2, 4154749.5, 3.0, 680.0, 0.0); ( 66036.3,  
 4154749.5, 3.0, 680.0, 0.0);  
 ( 66054.6, 4154741.8, 3.1, 680.0, 0.0); ( 66070.0,  
 4154736.8, 3.0, 680.0, 0.0);  
 ( 66087.2, 4154735.1, 3.0, 680.0, 0.0); ( 65900.8,  
 4154774.5, 4.0, 680.0, 0.0);  
 ( 65916.3, 4154779.4, 4.0, 680.0, 0.0); ( 65933.5,  
 4154779.4, 4.0, 680.0, 0.0);  
 ( 65950.6, 4154779.4, 4.0, 680.0, 0.0); ( 65967.7,  
 4154779.4, 3.6, 680.0, 0.0);  
 ( 65984.9, 4154779.4, 3.1, 680.0, 0.0); ( 66002.0,  
 4154779.4, 3.0, 680.0, 0.0);  
 ( 66017.5, 4154773.9, 3.0, 680.0, 0.0); ( 66034.6,  
 4154773.9, 3.0, 680.0, 0.0);  
 ( 66047.4, 4154766.7, 3.0, 680.0, 0.0); ( 66061.7,  
 4154761.7, 3.0, 680.0, 0.0);  
 ( 66076.7, 4154757.8, 3.0, 680.0, 0.0); ( 66098.5,  
 4154732.9, 3.0, 680.0, 0.0);  
 ( 66090.7, 4154752.3, 3.0, 680.0, 0.0); ( 66107.9,  
 4154728.0, 3.1, 680.0, 0.0);  
 ( 66116.1, 4154722.4, 3.3, 680.0, 0.0); ( 66125.4,  
 4154722.4, 3.5, 680.0, 0.0);  
 ( 66134.8, 4154717.4, 3.8, 680.0, 0.0); ( 66144.1,  
 4154714.1, 3.9, 680.0, 0.0);  
 ( 66151.2, 4154710.8, 4.0, 680.0, 0.0); ( 66161.7,  
 4154707.5, 4.0, 680.0, 0.0);  
 ( 66171.6, 4154703.6, 4.0, 680.0, 0.0); ( 66181.4,  
 4154699.2, 4.0, 680.0, 0.0);  
 ( 66191.9, 4154698.1, 4.0, 680.0, 0.0); ( 66202.3,  
 4154691.4, 4.0, 680.0, 0.0);  
 ( 66236.0, 4154699.2, 4.0, 680.0, 0.0); ( 66106.8,  
 4154744.6, 3.0, 680.0, 0.0);  
 ( 66116.1, 4154744.6, 3.0, 680.0, 0.0); ( 66126.0,  
 4154740.1, 3.1, 680.0, 0.0);  
 ( 66135.3, 4154740.1, 3.1, 680.0, 0.0); ( 66143.6,  
 4154731.8, 3.3, 680.0, 0.0);  
 ( 66154.0, 4154727.4, 3.4, 680.0, 0.0); ( 66162.8,  
 4154725.2, 3.5, 680.0, 0.0);  
 ( 66171.6, 4154720.8, 3.8, 680.0, 0.0); ( 66182.0,  
 4154717.4, 3.9, 680.0, 0.0);

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15





WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES \*\*\* \*\*\*/ UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED (METERS/SEC)

10.80, 1.54, 3.09, 5.14, 8.23,

\*\*\* AERMOD - VERSION 18081 \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N Milpitas.isc \*\*\* 02/08/21 \*\*\* AERMET - VERSION 14134 \*\*\* 09:58:15

PAGE 12

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

DATA \*\*\* \*\*\*/ UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

Surface file: C:\Users\kheck\Desktop\724945\724945.SFC Met Version: 14134 Profile file: C:\Users\kheck\Desktop\724945\724945.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23293 Upper air station no.: 23230 Name: SAN\_JOSE\_INTERNATIONAL\_AIRPORT Name: OAKLAND/WSO\_AP Year: 2009 Year: 2009

Table with 14 columns: YR, MO, DY, JDY, HR, H0, U\*, W\*, DT/DZ, ZICNV, ZIMCH, M-O, LEN, Z0, BOWEN. It contains 6 rows of meteorological data for the first 24 hours.

1.00	1.76	342.	10.0	281.4	2.0								
09	01	01	1	07	-13.5	0.236	-9.000	-9.000	-999.	275.	88.6	0.32	1.10
1.00	2.36	5.	10.0	281.4	2.0								
09	01	01	1	08	-19.7	0.345	-9.000	-9.000	-999.	486.	189.6	0.47	1.10
0.74	2.86	333.	10.0	280.9	2.0								
09	01	01	1	09	-8.3	0.363	-9.000	-9.000	-999.	526.	525.4	0.47	1.10
0.39	2.86	327.	10.0	280.9	2.0								
09	01	01	1	10	8.1	0.382	0.288	0.014	106.	566.	-625.1	0.47	1.10
0.27	2.86	351.	10.0	280.9	2.0								
09	01	01	1	11	17.6	-9.000	-9.000	-9.000	189.	-999.	-99999.0	0.25	1.10
0.23	0.00	0.	10.0	280.9	2.0								
09	01	01	1	12	23.0	-9.000	-9.000	-9.000	259.	-999.	-99999.0	0.25	1.10
0.21	0.00	0.	10.0	281.4	2.0								
09	01	01	1	13	23.9	-9.000	-9.000	-9.000	315.	-999.	-99999.0	0.25	1.10
0.21	0.00	0.	10.0	281.4	2.0								
09	01	01	1	14	48.5	-9.000	-9.000	-9.000	407.	-999.	-99999.0	0.25	1.10
0.22	0.00	0.	10.0	283.1	2.0								
09	01	01	1	15	69.5	0.319	0.953	0.016	453.	433.	-42.6	0.32	1.10
0.25	2.36	32.	10.0	283.1	2.0								
09	01	01	1	16	24.5	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.25	1.10
0.33	0.00	0.	10.0	283.1	2.0								
09	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
0.57	0.00	0.	10.0	283.1	2.0								
09	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	282.5	2.0								
09	01	01	1	19	-24.2	0.212	-9.000	-9.000	-999.	235.	35.9	0.47	1.10
1.00	2.36	324.	10.0	281.4	2.0								
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	281.4	2.0								
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.9	2.0								
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.9	2.0								
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.4	2.0								
09	01	01	1	24	-9.7	0.170	-9.000	-9.000	-999.	168.	45.7	0.47	1.10
1.00	1.76	310.	10.0	280.4	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	-999.	-99.00	282.6	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 18081 ***      *** C:\Lakes\AERMOD View\125 N Milpitas\125 N
Milpitas.isc                      ***      02/08/21
*** AERMET - VERSION 14134 ***      ***
***                                ***      09:58:15

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66313.29	4154531.41	0.01765	66314.95
4154502.63	0.03500		
66317.72	4154473.28	0.05693	66325.47
4154440.62	0.05433		
66316.90	4154570.04	0.00905	66316.90
4154590.04	0.00692		
66316.90	4154610.04	0.00548	66316.90
4154630.04	0.00450		
66316.90	4154650.04	0.00383	66359.43
4154488.56	0.02371		
66384.43	4154488.56	0.01763	66359.43
4154533.56	0.01118		
66384.43	4154533.56	0.00923	66359.43
4154578.56	0.00663		
66384.43	4154578.56	0.00583	66359.43
4154623.56	0.00422		
66384.43	4154623.56	0.00399	66368.66
4154451.14	0.03172		
66404.64	4154460.00	0.01983	66411.84
4154617.23	0.00386		
66412.95	4154580.69	0.00496	66446.16
4154610.03	0.00354		
66445.06	4154571.28	0.00454	66479.38
4154597.30	0.00332		
66414.05	4154542.49	0.00685	66435.64
4154504.84	0.00904		
66447.27	4154543.59	0.00561	66482.70
4154546.36	0.00458		
66504.29	4154586.22	0.00320	66536.96
4154582.90	0.00288		
66475.51	4154504.29	0.00694	66517.03
4154537.50	0.00418		
66450.59	4154470.52	0.01170	66477.17
4154479.93	0.00872		

66516.47	4154495.43	0.00590	66535.85
4154519.24	0.00440		
66554.67	4154544.15	0.00340	66562.98
4154569.06	0.00283		
66600.07	4154512.59	0.00347	66593.98
4154512.04	0.00358		
66602.84	4154502.07	0.00368	66597.30
4154500.41	0.00381		
66588.45	4154510.38	0.00370	66583.46
4154509.82	0.00379		
66578.48	4154508.16	0.00392	66572.39
4154506.50	0.00408		
66564.09	4154505.95	0.00425	66565.19
4154497.09	0.00451		
66570.73	4154497.09	0.00439	66577.37
4154498.20	0.00423		
66582.36	4154499.30	0.00410	66589.55
4154499.86	0.00395		
66605.05	4154575.70	0.00237	66600.63
4154570.17	0.00247		
66596.20	4154564.63	0.00258	66592.32
4154556.88	0.00273		
66588.45	4154549.68	0.00289	66584.02
4154545.81	0.00300		
66590.11	4154541.38	0.00302	66595.09
4154539.72	0.00299		
66600.63	4154545.81	0.00283	66602.84
4154552.45	0.00270		
66607.27	4154559.65	0.00256	66611.14
4154567.40	0.00242		
66615.57	4154572.94	0.00232	66628.27
4154502.03	0.00331		
66637.73	4154502.03	0.00319	66628.27
4154507.03	0.00321		
66637.73	4154507.03	0.00310	66624.39
4154512.03	0.00317		
66637.73	4154512.03	0.00301	66624.39
4154517.03	0.00307		
66637.73	4154517.03	0.00292	66624.39
4154522.03	0.00298		
66636.07	4154522.03	0.00286	66621.07
4154527.03	0.00293		
66636.07	4154527.03	0.00278	66621.07
4154532.03	0.00285		
66636.07	4154532.03	0.00270	66621.07
4154537.03	0.00277		

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*  
 Milpitas.isc \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\*

\*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 02/08/21  
 \*\*\*  
 09:58:15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
4154382.49	66636.07	4154537.03	0.00263	66081.88
4154381.38	66090.73	4154385.26	0.00490	66107.34
4154356.47	66110.11	4154374.74	0.00683	66115.65
4154366.43	66120.63	4154347.06	0.00616	66112.88
4154368.65	66127.27	4154338.75	0.00639	66097.93
4154354.81	66099.59	4154362.00	0.00449	66102.91
4154341.52	66105.13	4154348.16	0.00439	66108.45
4154437.30	66068.59	4154435.08	0.01187	66074.68
4154441.73	66081.88	4154438.96	0.01721	66091.29
4154419.58	66096.82	4154442.83	0.03040	66081.32
4154425.12	66087.97	4154421.80	0.01013	66094.61
4154304.98	66101.81	4154426.23	0.01567	66045.89
4154312.73	66054.20	4154308.30	0.00152	66062.50
4154362.00	66071.91	4154317.16	0.00196	66047.55
4154348.16	66048.66	4154355.36	0.00215	66050.87
4154333.77	66054.20	4154340.97	0.00194	66058.07
			0.00189	

4154360.34	66059.18	4154327.68	0.00182	66032.05
	0.00210			
4154345.40	66034.26	4154351.49	0.00190	66037.59
	0.00181			
4154331.00	66040.91	4154339.31	0.00174	66045.34
	0.00166			
4154381.38	66047.55	4154323.25	0.00159	66051.98
	0.00309			
4154369.76	66058.62	4154381.38	0.00322	66019.32
	0.00226			
4154373.63	66025.41	4154371.97	0.00238	66032.05
	0.00250			
4154421.80	66036.48	4154375.29	0.00261	66054.75
	0.00696			
4154419.58	66047.55	4154422.90	0.00666	66040.91
	0.00584			
4154415.15	66034.82	4154417.92	0.00536	66021.53
	0.00460			
4154417.37	66013.78	4154415.15	0.00434	66005.48
	0.00424			
4154489.34	65997.17	4154419.58	0.00412	66056.41
	0.03074			
4154472.73	66058.62	4154481.59	0.02981	66061.39
	0.02790			
4154455.01	66063.05	4154463.32	0.02397	66067.48
	0.02147			
4154432.87	66028.17	4154433.42	0.00687	66034.26
	0.00725			
4154436.19	66040.35	4154435.08	0.00815	66047.55
	0.00914			
4154569.62	66000.49	4154435.08	0.00540	65967.83
	0.01272			
4154443.94	65970.04	4154560.20	0.01285	65996.06
	0.00596			
4154538.06	65970.04	4154548.58	0.01255	65970.04
	0.01211			
4154513.14	65970.04	4154526.43	0.01145	65971.15
	0.01061			
4154491.00	65974.47	4154500.97	0.00993	65976.69
	0.00921			
4154473.28	65980.01	4154483.25	0.00876	65984.44
	0.00813			
4154453.91	65988.87	4154463.87	0.00750	65992.19
	0.00670			
4154558.54	65932.40	4154554.67	0.00913	65943.47
	0.01016			
4154540.27	65956.76	4154553.56	0.01126	65955.65
	0.01062			

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*  
 Milpitas.isc \*\*\*

\*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 02/08/21

\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 09:58:15

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
65956.76	4154533.63	0.01040	66027.62
4154498.75	0.01981		
66023.19	4154506.50	0.01958	66020.42
4154516.47	0.01984		
66017.66	4154526.99	0.01981	66014.89
4154535.84	0.01946		
66013.78	4154545.26	0.01931	66012.67
4154554.11	0.01898		
66011.01	4154561.86	0.01848	66009.91
4154571.83	0.01790		
66007.69	4154583.46	0.01700	66005.48
4154595.64	0.01601		
65999.94	4154606.15	0.01485	65963.40
4154584.01	0.01230		
65957.86	4154594.53	0.01173	65950.11
4154606.71	0.01100		
65951.22	4154617.78	0.01086	65953.44
4154622.21	0.01089		
65965.61	4154625.53	0.01151	65973.37
4154623.32	0.01207		
65980.01	4154621.66	0.01256	65987.21
4154617.78	0.01323		
66040.91	4154507.61	0.02581	66038.69
4154514.25	0.02547		
66033.16	4154523.66	0.02397	66030.94
4154535.29	0.02337		
66028.73	4154548.58	0.02239	66027.62
4154560.20	0.02146		
66024.85	4154571.83	0.02011	66020.98
4154585.67	0.01844		



4154612.80	66016.55	4154600.06	0.01676	66011.57
		0.01530		
4154570.72	65918.56	4154566.85	0.00850	65926.86
		0.00917		
4154575.71	65935.17	4154571.83	0.00981	65943.47
		0.01053		
4154618.89	65900.29	4154620.55	0.00806	65908.04
		0.00844		
4154614.46	65919.11	4154617.78	0.00901	65931.29
		0.00971		
4154629.96	65901.39	4154631.07	0.00808	65908.59
		0.00841		
4154627.19	65915.79	4154628.85	0.00876	65922.99
		0.00913		
4154624.98	65930.18	4154625.53	0.00952	65939.04
		0.01001		
4154636.60	65947.90	4154634.39	0.01026	65952.88
		0.01044		
4154638.82	65957.86	4154637.71	0.01066	65962.29
		0.01084		
4154635.50	65975.58	4154638.27	0.01152	65980.01
		0.01189		
4154630.51	65986.10	4154634.39	0.01227	65991.08
		0.01276		
4154535.84	66080.77	4154521.45	0.04521	66076.89
		0.03862		
4154567.95	66073.57	4154551.35	0.03311	66070.25
		0.02824		
4154602.28	66067.48	4154582.90	0.02456	66063.05
		0.02049		
4154631.07	66060.84	4154617.78	0.01787	66058.07
		0.01589		
4154659.30	66055.86	4154644.91	0.01412	66051.98
		0.01252		
4154542.49	66106.24	4154529.20	0.05368	66100.15
		0.04377		
4154572.94	66096.27	4154556.33	0.03665	66091.84
		0.03007		
4154606.71	66088.52	4154586.78	0.02575	66085.75
		0.02091		
4154636.05	66082.98	4154620.55	0.01817	66080.77
		0.01563		
4154664.29	66076.34	4154648.78	0.01387	66071.91
		0.01209		
4154558.54	66147.76	4154547.47	0.05225	66146.10
		0.04334		
4154584.01	66144.99	4154569.62	0.03633	66143.88
		0.02923		
4154609.48	66140.56	4154598.40	0.02388	66138.35
		0.02064		

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc                              \*\*\*                              02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
    \*\*\*                              09:58:15

PAGE 16

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL                    \*\*\*

INCLUDING SOURCE(S):      PAREA1      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66136.13	4154623.87	0.01727	66133.92
4154637.16	0.01482		
66132.26	4154651.00	0.01274	66130.60
4154664.29	0.01113		
66136.13	4154672.59	0.01009	66141.67
4154672.59	0.00992		
66148.31	4154668.71	0.01010	66150.53
4154653.77	0.01172		
66154.96	4154639.93	0.01350	66156.62
4154624.42	0.01624		
66158.28	4154612.24	0.01897	66162.71
4154597.30	0.02318		
66162.15	4154582.35	0.02932	66165.47
4154570.17	0.03576		
66166.58	4154560.76	0.04226	66169.35
4154553.01	0.04886		
66211.31	4154558.54	0.03698	66243.54
4154558.54	0.02396		
66211.31	4154570.27	0.02805	66243.54
4154570.27	0.01887		
66211.31	4154582.00	0.02215	66243.54
4154582.00	0.01543		
66211.31	4154593.73	0.01807	66243.54
4154593.73	0.01297		
66211.31	4154605.46	0.01511	66243.54
4154605.46	0.01114		
66211.31	4154617.19	0.01288	66243.54
4154617.19	0.00972		

4154628.92	66211.31	4154628.92	0.01116	66243.54
		0.00859		
4154640.65	66211.31	4154640.65	0.00979	66243.54
		0.00768		
4154652.38	66211.31	4154652.38	0.00868	66243.54
		0.00692		
4154664.11	66211.31	4154664.11	0.00777	66243.54
		0.00629		
4154675.84	66211.31	4154675.84	0.00700	66243.54
		0.00575		
4154687.57	66211.31	4154687.57	0.00636	66243.54
		0.00528		
4154259.03	66074.13	4154255.15	0.00143	66079.11
		0.00154		
4154265.12	66085.75	4154262.90	0.00170	66092.95
		0.00189		
4154278.41	66118.97	4154275.64	0.00292	66123.95
		0.00322		
4154286.16	66130.60	4154281.73	0.00366	66140.56
		0.00443		
4154205.44	66110.33	4154208.76	0.00168	66092.35
		0.00136		
4154192.27	66150.53	4154208.76	0.00262	66097.60
		0.00135		
4154222.16	66142.49	4154222.16	0.00264	66150.53
		0.00289		
4154235.56	66110.33	4154235.56	0.00197	66118.37
		0.00217		
4154235.56	66126.41	4154235.56	0.00240	66134.45
		0.00265		
4154235.56	66142.49	4154235.56	0.00292	66150.53
		0.00321		
4154248.96	66126.41	4154248.96	0.00264	66134.45
		0.00293		
4154248.96	66142.49	4154248.96	0.00325	66150.53
		0.00359		
4154262.36	66126.41	4154262.36	0.00293	66134.45
		0.00327		
4154262.36	66142.49	4154262.36	0.00364	66150.53
		0.00404		
4154217.51	66159.94	4154229.13	0.00339	66162.15
		0.00317		
4154219.72	66166.58	4154206.43	0.00304	66084.09
		0.00134		
4154219.72	66090.36	4154219.72	0.00143	66096.63
		0.00154		
4154231.90	66102.90	4154219.72	0.00165	66084.09
		0.00142		
4154231.90	66090.36	4154231.90	0.00153	66096.63
		0.00164		

66102.90 4154231.90 0.00176 66084.09  
 4154244.08 0.00151  
 \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

PAGE 17

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66090.36	4154244.08	0.00163	66096.63
4154244.08	0.00175		
66102.90	4154244.08	0.00189	66084.09
4154256.26	0.00161		
66090.36	4154256.26	0.00174	66096.63
4154256.26	0.00188		
66175.44	4154190.86	0.00294	66121.30
4154149.34	0.00137		
66136.36	4154149.34	0.00157	66151.42
4154149.34	0.00180		
66166.48	4154149.34	0.00206	66106.24
4154159.34	0.00125		
66121.30	4154159.34	0.00144	66136.36
4154159.34	0.00166		
66151.42	4154159.34	0.00191	66166.48
4154159.34	0.00219		
66106.24	4154169.34	0.00132	66121.30
4154169.34	0.00152		
66136.36	4154169.34	0.00175	66151.42
4154169.34	0.00203		
66166.48	4154169.34	0.00234	66106.24
4154179.34	0.00138		
66121.30	4154179.34	0.00160	66136.36
4154179.34	0.00186		
66151.42	4154179.34	0.00216	66166.48
4154179.34	0.00250		

4154189.34	66106.24	4154189.34	0.00145	66121.30
		0.00169		
4154180.97	66166.48	4154189.34	0.00267	66178.21
		0.00281		
4154164.39	66176.83	4154174.29	0.00265	66179.59
		0.00254		
4154151.11	66179.04	4154161.00	0.00247	66181.81
		0.00238		
4154201.49	66097.10	4154211.38	0.00148	66099.87
		0.00145		
4154272.87	66143.88	4154278.41	0.00430	66146.65
		0.00424		
4154198.68	66078.00	4154244.08	0.00141	66157.72
		0.00262		
4154241.87	66115.65	4154199.79	0.00169	66158.83
		0.00373		
4154683.61	65913.12	4154678.08	0.00780	65925.60
		0.00802		
4154690.26	65936.98	4154683.61	0.00832	65948.36
		0.00838		
4154685.83	65959.74	4154690.26	0.00865	65970.02
		0.00907		
4154678.08	65981.40	4154685.83	0.00932	65992.78
		0.00998		
4154703.04	65913.67	4154703.04	0.00721	65925.05
		0.00745		
4154708.03	65935.88	4154708.03	0.00752	65947.26
		0.00772		
4154708.03	65958.64	4154708.03	0.00792	65970.02
		0.00809		
4154703.60	65982.50	4154703.60	0.00847	65993.88
		0.00862		
4154671.48	66011.57	4154675.91	0.01051	66028.17
		0.01112		
4154700.27	66038.69	4154669.27	0.01144	66007.69
		0.00895		
4154690.86	66020.98	4154695.84	0.00933	66034.26
		0.00974		
4154682.56	66048.11	4154688.65	0.00994	66063.05
		0.01040		
4154674.25	65899.18	4154699.72	0.00697	65899.73
		0.00748		
4154670.38	65887.55	4154693.63	0.00681	65886.45
		0.00714		
4154697.33	65873.16	4154677.02	0.00668	65864.58
		0.00622		
4154717.33	65881.82	4154705.08	0.00649	65858.49
		0.00583		
4154734.57	65878.49	4154717.33	0.00620	65850.74
		0.00546		

```

        65869.08    4154734.57    0.00575    65858.49
4154757.33    0.00523
        65850.26    4154749.03    0.00525    65877.32
4154743.56    0.00571

```

```

^ *** AERMOD - VERSION 18081 ***    *** C:\Lakes\AERMOD View\125 N Milpitas\125 N
Milpitas.isc    ***    02/08/21
*** AERMET - VERSION 14134 ***    ***
***    09:58:15

```

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

```

*** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5
YEARS FOR SOURCE GROUP: ALL    ***
INCLUDING SOURCE(S):    PAREA1    ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
65874.62	4154762.94	0.00531	65887.84
4154748.06	0.00576		
65887.91	4154766.88	0.00537	65899.18
4154749.54	0.00586		
65915.21	4154755.63	0.00589	65932.35
4154760.61	0.00590		
65949.49	4154760.61	0.00601	65966.63
4154760.61	0.00610		
65983.77	4154760.61	0.00614	66003.13
4154756.74	0.00629		
66019.16	4154749.54	0.00655	66036.30
4154749.54	0.00648		
66054.55	4154741.79	0.00669	66070.03
4154736.81	0.00677		
66087.17	4154735.15	0.00663	65900.84
4154774.46	0.00532		
65916.32	4154779.44	0.00532	65933.46
4154779.44	0.00541		
65950.60	4154779.44	0.00548	65967.74
4154779.44	0.00552		
65984.88	4154779.44	0.00553	66002.02
4154779.44	0.00550		
66017.50	4154773.90	0.00564	66034.64
4154773.90	0.00555		

66047.35	4154766.71	0.00572	66061.72
4154761.72	0.00577		
66076.65	4154757.85	0.00576	66098.49
4154732.94	0.00657		
66090.73	4154752.31	0.00581	66107.90
4154727.96	0.00668		
66116.12	4154722.42	0.00683	66125.45
4154722.42	0.00667		
66134.78	4154717.44	0.00677	66144.11
4154714.12	0.00676		
66151.23	4154710.79	0.00679	66161.66
4154707.47	0.00673		
66171.55	4154703.60	0.00670	66181.43
4154699.17	0.00667		
66191.87	4154698.06	0.00643	66202.30
4154691.42	0.00645		
66235.99	4154699.17	0.00510	66106.79
4154744.56	0.00590		
66116.12	4154744.56	0.00576	66126.00
4154740.13	0.00580		
66135.33	4154740.13	0.00565	66143.56
4154731.83	0.00587		
66153.99	4154727.40	0.00588	66162.77
4154725.18	0.00581		
66171.55	4154720.75	0.00583	66181.98
4154717.43	0.00575		
66194.64	4154713.56	0.00563	66210.61
4154711.34	0.00533		
66222.15	4154706.91	0.00520	65678.61
4154862.02	0.00281		
65714.88	4153989.87	0.00016	67105.13
4154013.18	0.00206		
67112.04	4154867.20	0.00043	66221.88
4154539.70	0.05977		
66095.26	4154492.74	0.07509	66160.24
4154517.90	0.09897		
66129.22	4154504.90	0.09645	66195.46
4154530.06	0.08494		
66145.57	4154512.45	0.09796	66178.27
4154525.86	0.08945		
66111.61	4154499.45	0.08893	66208.46
4154536.76	0.07109		

```

*** AERMOD - VERSION 18081 ***   *** C:\Lakes\AERMOD View\125 N Milpitas\125 N
Milpitas.isc                    ***   02/08/21
*** AERMET - VERSION 14134 ***   ***
***                               ***   09:58:15

```

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.09897 AT (	66160.24, 4154517.90,
4.00,	680.00, 0.00) DC		
	2ND HIGHEST VALUE IS	0.09796 AT (	66145.57, 4154512.45,
4.00,	680.00, 0.00) DC		
	3RD HIGHEST VALUE IS	0.09645 AT (	66129.22, 4154504.90,
4.00,	680.00, 0.00) DC		
	4TH HIGHEST VALUE IS	0.08945 AT (	66178.27, 4154525.86,
4.00,	680.00, 0.00) DC		
	5TH HIGHEST VALUE IS	0.08893 AT (	66111.61, 4154499.45,
4.00,	680.00, 0.00) DC		
	6TH HIGHEST VALUE IS	0.08494 AT (	66195.46, 4154530.06,
4.00,	680.00, 0.00) DC		
	7TH HIGHEST VALUE IS	0.07509 AT (	66095.26, 4154492.74,
4.00,	680.00, 0.00) DC		
	8TH HIGHEST VALUE IS	0.07109 AT (	66208.46, 4154536.76,
4.00,	680.00, 0.00) DC		
	9TH HIGHEST VALUE IS	0.05977 AT (	66221.88, 4154539.70,
4.00,	680.00, 0.00) DC		
	10TH HIGHEST VALUE IS	0.05693 AT (	66317.72, 4154473.28,
4.00,	680.00, 0.00) DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\125 N  
 Milpitas.isc \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 09:58:15

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* Message Summary : AERMOD Model Execution \*\*\*



----- Summary of Total Messages -----

A Total of                0 Fatal Error Message(s)  
A Total of                1 Warning Message(s)  
A Total of                13130 Informational Message(s)  
  
A Total of                43872 Hours Were Processed  
  
A Total of                11611 Calm Hours Identified  
  
A Total of                1519 Missing Hours Identified ( 3.46 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
MX W481    43873                MAIN: Data Remaining After End of Year. Number of Hours=  
          48

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.7.0
** Lakes Environmental Software Inc.
** Date: 2/8/2021
** File: C:\Lakes\AERMOD View\125 N Milpitas_TOTAL PM2\125 N Milpitas_TOTAL PM2.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****

```

```

**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\125 N Milpitas_TOTAL PM2\125 N Milpitas_TOTAL P
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 79517 Milpitas_Population
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "125 N Milpitas_TOTAL PM2.err"
CO FINISHED

```

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA1      AREAPOLY      66166.034  4154486.535      4.000
** Source Parameters **
  SRCPARAM PAREA1      1.3164E-07      2.000      12
  AREAVERT PAREA1      66166.034  4154486.535  66164.812  4154490.507
  AREAVERT PAREA1      66190.784  4154501.202  66193.229  4154496.313
  AREAVERT PAREA1      66224.396  4154508.535  66221.952  4154513.119
  AREAVERT PAREA1      66246.091  4154520.452  66259.230  4154480.729
  AREAVERT PAREA1      66125.700  4154430.006  66108.894  4154470.035
  AREAVERT PAREA1      66133.339  4154479.507  66136.395  4154474.618

```

```

**
** No Building Downwash **
**
  URBANSRC ALL
  SRCGROUP ALL

```

```

SO FINISHED

```

```
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "125 N Milpitas_TOTAL PM2.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE C:\Users\kheck\Desktop\724945\724945.SFC
  PROFFILE C:\Users\kheck\Desktop\724945\724945.PFL
  SURFDATA 23293 2009 San_Jose_International_Airport
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 11.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL "125 N MILPITAS_TOTAL PM2.AD\AN00GALL.PLT" 31
  SUMMFILE "125 N Milpitas_TOTAL PM2.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM   World Geodetic System 1984
** DTMRGN  Global Definition
** UNITS   m
** ZONE    11
** ZONEINX 0
**
```

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.7.0
** Lakes Environmental Software Inc.
** Date: 2/8/2021
** File: C:\Lakes\AERMOD View\125 N Milpitas_TOTAL PM2\125 N Milpitas_TOTAL PM2.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****

```

```

**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\125 N Milpitas_TOTAL PM2\125 N Milpitas_TOTAL P
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 79517 Milpitas_Population
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "125 N Milpitas_TOTAL PM2.err"
CO FINISHED

```

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA1      AREAPOLY      66166.034  4154486.535      4.000
** Source Parameters **
  SRCPARAM PAREA1      1.3164E-07      2.000      12
  AREAVERT PAREA1      66166.034  4154486.535  66164.812  4154490.507
  AREAVERT PAREA1      66190.784  4154501.202  66193.229  4154496.313
  AREAVERT PAREA1      66224.396  4154508.535  66221.952  4154513.119
  AREAVERT PAREA1      66246.091  4154520.452  66259.230  4154480.729
  AREAVERT PAREA1      66125.700  4154430.006  66108.894  4154470.035
  AREAVERT PAREA1      66133.339  4154479.507  66136.395  4154474.618

```

```

**
** No Building Downwash **
**
  URBANSRC ALL
  SRCGROUP ALL

```

```

SO FINISHED

```

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
    INCLUDED "125 N Milpitas\_TOTAL PM2.rou"  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
ME STARTING  
    SURFFILE C:\Users\kheck\Desktop\724945\724945.SFC  
    PROFFILE C:\Users\kheck\Desktop\724945\724945.PFL  
    SURFDATA 23293 2009 San\_Jose\_International\_Airport  
    UAIRDATA 23230 2009 OAKLAND/WSO\_AP  
    PROFBASE 11.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*  
OU STARTING  
\*\* Auto-Generated Plotfiles  
    PLOTFILE ANNUAL ALL "125 N MILPITAS\_TOTAL PM2.AD\AN00GALL.PLT" 31  
    SUMMFILE "125 N Milpitas\_TOTAL PM2.sum"  
OU FINISHED

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
PM2\125 N Milpitas\_TOTAL P \*\*\*           02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
  \*\*\*           10:58:33

PAGE 1  
\*\*\* MODELOPTs:    RegDEFAULT   CONC   ELEV   URBAN

\*\*\*                                    MODEL SETUP OPTIONS SUMMARY

\*\*\*  
-----  
-----

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 79517.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 1 Source(s); 1 Source Group(s); and 466  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing

Hours

b for Both Calm

and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 11.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 125 N Milpitas\_TOTAL PM2.err

\*\*File for Summary of Results: 125 N Milpitas\_TOTAL PM2.sum

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 10:58:33

PAGE 2

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* AREAPOLY SOURCE DATA \*\*\*

INIT.	NUMBER	EMISSION	RATE	LOCATION OF AREA		BASE	RELEASE	NUMBER
SOURCE	URBAN	EMISSION	(GRAMS/SEC	X	Y	ELEV.	HEIGHT	OF VERTS.
SZ	SOURCE	SCALAR	VARY					
ID	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	BY							

PAREA1	0	0.13164E-06	66166.0	4154486.5	4.0	2.00	12
0.00	YES						

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL

PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 10:58:33

PAGE 3  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID SOURCE IDs  
-----

ALL PAREA1 ,  
▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 10:58:33

PAGE 4  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID URBAN POP SOURCE IDs  
-----

79517. PAREA1 ,  
▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 10:58:33

PAGE 5  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 66313.3, 4154531.4, 4.0, 680.0, 0.0); ( 66314.9,  
4154502.6, 4.0, 680.0, 0.0);  
( 66317.7, 4154473.3, 4.0, 680.0, 0.0); ( 66325.5,  
4154440.6, 4.0, 680.0, 0.0);  
( 66316.9, 4154570.0, 4.0, 680.0, 0.0); ( 66316.9,



4154590.0, 4.0, 680.0, 0.0);  
 ( 66316.9, 4154610.0, 4.0, 680.0, 0.0); ( 66316.9,  
 4154630.0, 4.0, 680.0, 0.0);  
 ( 66316.9, 4154650.0, 4.0, 680.0, 0.0); ( 66359.4,  
 4154488.6, 4.0, 680.0, 0.0);  
 ( 66384.4, 4154488.6, 4.0, 680.0, 0.0); ( 66359.4,  
 4154533.6, 4.0, 680.0, 0.0);  
 ( 66384.4, 4154533.6, 4.0, 680.0, 0.0); ( 66359.4,  
 4154578.6, 4.0, 680.0, 0.0);  
 ( 66384.4, 4154578.6, 4.0, 680.0, 0.0); ( 66359.4,  
 4154623.6, 4.0, 680.0, 0.0);  
 ( 66384.4, 4154623.6, 4.0, 680.0, 0.0); ( 66368.7,  
 4154451.1, 4.0, 680.0, 0.0);  
 ( 66404.6, 4154460.0, 4.0, 680.0, 0.0); ( 66411.8,  
 4154617.2, 4.0, 680.0, 0.0);  
 ( 66412.9, 4154580.7, 4.0, 680.0, 0.0); ( 66446.2,  
 4154610.0, 4.0, 680.0, 0.0);  
 ( 66445.1, 4154571.3, 4.0, 680.0, 0.0); ( 66479.4,  
 4154597.3, 4.0, 680.0, 0.0);  
 ( 66414.1, 4154542.5, 4.0, 680.0, 0.0); ( 66435.6,  
 4154504.8, 4.0, 680.0, 0.0);  
 ( 66447.3, 4154543.6, 4.0, 680.0, 0.0); ( 66482.7,  
 4154546.4, 4.0, 680.0, 0.0);  
 ( 66504.3, 4154586.2, 4.0, 680.0, 0.0); ( 66537.0,  
 4154582.9, 4.0, 680.0, 0.0);  
 ( 66475.5, 4154504.3, 4.0, 680.0, 0.0); ( 66517.0,  
 4154537.5, 4.0, 680.0, 0.0);  
 ( 66450.6, 4154470.5, 4.0, 680.0, 0.0); ( 66477.2,  
 4154479.9, 4.0, 680.0, 0.0);  
 ( 66516.5, 4154495.4, 4.5, 680.0, 0.0); ( 66535.9,  
 4154519.2, 4.5, 680.0, 0.0);  
 ( 66554.7, 4154544.1, 4.4, 680.0, 0.0); ( 66563.0,  
 4154569.1, 4.7, 680.0, 0.0);  
 ( 66600.1, 4154512.6, 5.0, 680.0, 0.0); ( 66594.0,  
 4154512.0, 5.0, 680.0, 0.0);  
 ( 66602.8, 4154502.1, 5.0, 680.0, 0.0); ( 66597.3,  
 4154500.4, 5.0, 680.0, 0.0);  
 ( 66588.4, 4154510.4, 5.0, 680.0, 0.0); ( 66583.5,  
 4154509.8, 5.0, 680.0, 0.0);  
 ( 66578.5, 4154508.2, 5.0, 680.0, 0.0); ( 66572.4,  
 4154506.5, 5.0, 680.0, 0.0);  
 ( 66564.1, 4154505.9, 5.0, 680.0, 0.0); ( 66565.2,  
 4154497.1, 5.0, 680.0, 0.0);  
 ( 66570.7, 4154497.1, 5.0, 680.0, 0.0); ( 66577.4,  
 4154498.2, 5.0, 680.0, 0.0);  
 ( 66582.4, 4154499.3, 5.0, 680.0, 0.0); ( 66589.6,  
 4154499.9, 5.0, 680.0, 0.0);  
 ( 66605.1, 4154575.7, 5.0, 680.0, 0.0); ( 66600.6,  
 4154570.2, 5.0, 680.0, 0.0);  
 ( 66596.2, 4154564.6, 5.0, 680.0, 0.0); ( 66592.3,

4154556.9, 5.0, 680.0, 0.0);  
 ( 66588.4, 4154549.7, 5.0, 680.0, 0.0); ( 66584.0,  
 4154545.8, 5.0, 680.0, 0.0);  
 ( 66590.1, 4154541.4, 5.0, 680.0, 0.0); ( 66595.1,  
 4154539.7, 5.0, 680.0, 0.0);  
 ( 66600.6, 4154545.8, 5.0, 680.0, 0.0); ( 66602.8,  
 4154552.4, 5.0, 680.0, 0.0);  
 ( 66607.3, 4154559.6, 5.0, 680.0, 0.0); ( 66611.1,  
 4154567.4, 5.0, 680.0, 0.0);  
 ( 66615.6, 4154572.9, 5.0, 680.0, 0.0); ( 66628.3,  
 4154502.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154502.0, 5.2, 680.0, 0.0); ( 66628.3,  
 4154507.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154507.0, 5.2, 680.0, 0.0); ( 66624.4,  
 4154512.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154512.0, 5.1, 680.0, 0.0); ( 66624.4,  
 4154517.0, 5.0, 680.0, 0.0);  
 ( 66637.7, 4154517.0, 5.1, 680.0, 0.0); ( 66624.4,  
 4154522.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154522.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154527.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154527.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154532.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154532.0, 5.0, 680.0, 0.0); ( 66621.1,  
 4154537.0, 5.0, 680.0, 0.0);  
 ( 66636.1, 4154537.0, 5.0, 680.0, 0.0); ( 66081.9,  
 4154382.5, 4.0, 680.0, 0.0);  
 ( 66090.7, 4154385.3, 4.0, 680.0, 0.0); ( 66107.3,  
 4154381.4, 4.0, 680.0, 0.0);  
 ( 66110.1, 4154374.7, 4.0, 680.0, 0.0); ( 66115.7,  
 4154356.5, 4.0, 680.0, 0.0);  
 ( 66120.6, 4154347.1, 4.0, 680.0, 0.0); ( 66112.9,  
 4154366.4, 4.0, 680.0, 0.0);  
 ( 66127.3, 4154338.8, 4.0, 680.0, 0.0); ( 66097.9,  
 4154368.6, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 66099.6, 4154362.0, 4.0, 680.0, 0.0); ( 66102.9,  
 4154354.8, 4.0, 680.0, 0.0);  
 ( 66105.1, 4154348.2, 4.0, 680.0, 0.0); ( 66108.4,

4154341.5, 4.0, 680.0, 0.0);  
( 66068.6, 4154435.1, 4.0, 680.0, 0.0); ( 66074.7,  
4154437.3, 4.0, 680.0, 0.0);  
( 66081.9, 4154439.0, 4.0, 680.0, 0.0); ( 66091.3,  
4154441.7, 4.0, 680.0, 0.0);  
( 66096.8, 4154442.8, 4.0, 680.0, 0.0); ( 66081.3,  
4154419.6, 4.0, 680.0, 0.0);  
( 66088.0, 4154421.8, 4.0, 680.0, 0.0); ( 66094.6,  
4154425.1, 4.0, 680.0, 0.0);  
( 66101.8, 4154426.2, 4.0, 680.0, 0.0); ( 66045.9,  
4154305.0, 4.0, 680.0, 0.0);  
( 66054.2, 4154308.3, 4.0, 680.0, 0.0); ( 66062.5,  
4154312.7, 4.0, 680.0, 0.0);  
( 66071.9, 4154317.2, 4.0, 680.0, 0.0); ( 66047.6,  
4154362.0, 4.0, 680.0, 0.0);  
( 66048.7, 4154355.4, 4.0, 680.0, 0.0); ( 66050.9,  
4154348.2, 4.0, 680.0, 0.0);  
( 66054.2, 4154341.0, 4.0, 680.0, 0.0); ( 66058.1,  
4154333.8, 4.0, 680.0, 0.0);  
( 66059.2, 4154327.7, 4.0, 680.0, 0.0); ( 66032.1,  
4154360.3, 4.0, 680.0, 0.0);  
( 66034.3, 4154351.5, 4.0, 680.0, 0.0); ( 66037.6,  
4154345.4, 4.0, 680.0, 0.0);  
( 66040.9, 4154339.3, 4.0, 680.0, 0.0); ( 66045.3,  
4154331.0, 4.0, 680.0, 0.0);  
( 66047.6, 4154323.2, 4.0, 680.0, 0.0); ( 66052.0,  
4154381.4, 4.0, 680.0, 0.0);  
( 66058.6, 4154381.4, 4.0, 680.0, 0.0); ( 66019.3,  
4154369.8, 4.0, 680.0, 0.0);  
( 66025.4, 4154372.0, 4.0, 680.0, 0.0); ( 66032.1,  
4154373.6, 4.0, 680.0, 0.0);  
( 66036.5, 4154375.3, 4.0, 680.0, 0.0); ( 66054.8,  
4154421.8, 4.0, 680.0, 0.0);  
( 66047.6, 4154422.9, 4.0, 680.0, 0.0); ( 66040.9,  
4154419.6, 4.0, 680.0, 0.0);  
( 66034.8, 4154417.9, 4.0, 680.0, 0.0); ( 66021.5,  
4154415.1, 4.0, 680.0, 0.0);  
( 66013.8, 4154415.1, 4.0, 680.0, 0.0); ( 66005.5,  
4154417.4, 4.0, 680.0, 0.0);  
( 65997.2, 4154419.6, 4.0, 680.0, 0.0); ( 66056.4,  
4154489.3, 4.0, 680.0, 0.0);  
( 66058.6, 4154481.6, 4.0, 680.0, 0.0); ( 66061.4,  
4154472.7, 4.0, 680.0, 0.0);  
( 66063.1, 4154463.3, 4.0, 680.0, 0.0); ( 66067.5,  
4154455.0, 4.0, 680.0, 0.0);  
( 66028.2, 4154433.4, 4.0, 680.0, 0.0); ( 66034.3,  
4154432.9, 4.0, 680.0, 0.0);  
( 66040.4, 4154435.1, 4.0, 680.0, 0.0); ( 66047.6,  
4154436.2, 4.0, 680.0, 0.0);  
( 66000.5, 4154435.1, 4.0, 680.0, 0.0); ( 65967.8,

4154569.6, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154560.2, 4.0, 680.0, 0.0); ( 65996.1,  
 4154443.9, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154548.6, 4.0, 680.0, 0.0); ( 65970.0,  
 4154538.1, 4.0, 680.0, 0.0);  
 ( 65970.0, 4154526.4, 4.0, 680.0, 0.0); ( 65971.2,  
 4154513.1, 4.0, 680.0, 0.0);  
 ( 65974.5, 4154501.0, 4.0, 680.0, 0.0); ( 65976.7,  
 4154491.0, 4.0, 680.0, 0.0);  
 ( 65980.0, 4154483.2, 4.0, 680.0, 0.0); ( 65984.4,  
 4154473.3, 4.0, 680.0, 0.0);  
 ( 65988.9, 4154463.9, 4.0, 680.0, 0.0); ( 65992.2,  
 4154453.9, 4.0, 680.0, 0.0);  
 ( 65932.4, 4154554.7, 4.0, 680.0, 0.0); ( 65943.5,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 65956.8, 4154553.6, 4.0, 680.0, 0.0); ( 65955.7,  
 4154540.3, 4.0, 680.0, 0.0);  
 ( 65956.8, 4154533.6, 4.0, 680.0, 0.0); ( 66027.6,  
 4154498.8, 4.0, 680.0, 0.0);  
 ( 66023.2, 4154506.5, 4.0, 680.0, 0.0); ( 66020.4,  
 4154516.5, 4.0, 680.0, 0.0);  
 ( 66017.7, 4154527.0, 4.0, 680.0, 0.0); ( 66014.9,  
 4154535.8, 4.0, 680.0, 0.0);  
 ( 66013.8, 4154545.3, 4.0, 680.0, 0.0); ( 66012.7,  
 4154554.1, 4.0, 680.0, 0.0);  
 ( 66011.0, 4154561.9, 4.0, 680.0, 0.0); ( 66009.9,  
 4154571.8, 4.0, 680.0, 0.0);  
 ( 66007.7, 4154583.5, 4.0, 680.0, 0.0); ( 66005.5,  
 4154595.6, 4.0, 680.0, 0.0);  
 ( 65999.9, 4154606.1, 4.0, 680.0, 0.0); ( 65963.4,  
 4154584.0, 4.0, 680.0, 0.0);  
 ( 65957.9, 4154594.5, 4.0, 680.0, 0.0); ( 65950.1,  
 4154606.7, 4.0, 680.0, 0.0);  
 ( 65951.2, 4154617.8, 4.0, 680.0, 0.0); ( 65953.4,  
 4154622.2, 4.0, 680.0, 0.0);  
 ( 65965.6, 4154625.5, 4.0, 680.0, 0.0); ( 65973.4,  
 4154623.3, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21

\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\*

10:58:33

PAGE 7

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 65980.0, 4154621.7, 4.0, 680.0, 0.0); ( 65987.2,

4154617.8, 4.0, 680.0, 0.0);  
( 66040.9, 4154507.6, 4.0, 680.0, 0.0); ( 66038.7,  
4154514.2, 4.0, 680.0, 0.0);  
( 66033.2, 4154523.7, 4.0, 680.0, 0.0); ( 66030.9,  
4154535.3, 4.0, 680.0, 0.0);  
( 66028.7, 4154548.6, 4.0, 680.0, 0.0); ( 66027.6,  
4154560.2, 4.0, 680.0, 0.0);  
( 66024.9, 4154571.8, 4.0, 680.0, 0.0); ( 66021.0,  
4154585.7, 4.0, 680.0, 0.0);  
( 66016.6, 4154600.1, 4.0, 680.0, 0.0); ( 66011.6,  
4154612.8, 4.0, 680.0, 0.0);  
( 65918.6, 4154566.8, 4.0, 680.0, 0.0); ( 65926.9,  
4154570.7, 4.0, 680.0, 0.0);  
( 65935.2, 4154571.8, 4.0, 680.0, 0.0); ( 65943.5,  
4154575.7, 4.0, 680.0, 0.0);  
( 65900.3, 4154620.5, 4.0, 680.0, 0.0); ( 65908.0,  
4154618.9, 4.0, 680.0, 0.0);  
( 65919.1, 4154617.8, 4.0, 680.0, 0.0); ( 65931.3,  
4154614.5, 4.0, 680.0, 0.0);  
( 65901.4, 4154631.1, 4.0, 680.0, 0.0); ( 65908.6,  
4154630.0, 4.0, 680.0, 0.0);  
( 65915.8, 4154628.8, 4.0, 680.0, 0.0); ( 65923.0,  
4154627.2, 4.0, 680.0, 0.0);  
( 65930.2, 4154625.5, 4.0, 680.0, 0.0); ( 65939.0,  
4154625.0, 4.0, 680.0, 0.0);  
( 65947.9, 4154634.4, 4.0, 680.0, 0.0); ( 65952.9,  
4154636.6, 4.0, 680.0, 0.0);  
( 65957.9, 4154637.7, 4.0, 680.0, 0.0); ( 65962.3,  
4154638.8, 4.0, 680.0, 0.0);  
( 65975.6, 4154638.3, 4.0, 680.0, 0.0); ( 65980.0,  
4154635.5, 4.0, 680.0, 0.0);  
( 65986.1, 4154634.4, 4.0, 680.0, 0.0); ( 65991.1,  
4154630.5, 4.0, 680.0, 0.0);  
( 66080.8, 4154521.4, 4.0, 680.0, 0.0); ( 66076.9,  
4154535.8, 4.0, 680.0, 0.0);  
( 66073.6, 4154551.3, 4.0, 680.0, 0.0); ( 66070.2,  
4154567.9, 4.0, 680.0, 0.0);  
( 66067.5, 4154582.9, 4.0, 680.0, 0.0); ( 66063.1,  
4154602.3, 4.0, 680.0, 0.0);  
( 66060.8, 4154617.8, 4.0, 680.0, 0.0); ( 66058.1,  
4154631.1, 4.0, 680.0, 0.0);  
( 66055.9, 4154644.9, 4.0, 680.0, 0.0); ( 66052.0,  
4154659.3, 4.0, 680.0, 0.0);  
( 66106.2, 4154529.2, 4.0, 680.0, 0.0); ( 66100.2,  
4154542.5, 4.0, 680.0, 0.0);  
( 66096.3, 4154556.3, 4.0, 680.0, 0.0); ( 66091.8,  
4154572.9, 4.0, 680.0, 0.0);  
( 66088.5, 4154586.8, 4.0, 680.0, 0.0); ( 66085.8,  
4154606.7, 4.0, 680.0, 0.0);  
( 66083.0, 4154620.5, 4.0, 680.0, 0.0); ( 66080.8,

4154636.0, 4.0, 680.0, 0.0);  
 ( 66076.3, 4154648.8, 4.0, 680.0, 0.0); ( 66071.9,  
 4154664.3, 4.0, 680.0, 0.0);  
 ( 66147.8, 4154547.5, 4.0, 680.0, 0.0); ( 66146.1,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 66145.0, 4154569.6, 4.0, 680.0, 0.0); ( 66143.9,  
 4154584.0, 4.0, 680.0, 0.0);  
 ( 66140.6, 4154598.4, 4.0, 680.0, 0.0); ( 66138.4,  
 4154609.5, 4.0, 680.0, 0.0);  
 ( 66136.1, 4154623.9, 4.0, 680.0, 0.0); ( 66133.9,  
 4154637.2, 4.0, 680.0, 0.0);  
 ( 66132.3, 4154651.0, 4.0, 680.0, 0.0); ( 66130.6,  
 4154664.3, 4.0, 680.0, 0.0);  
 ( 66136.1, 4154672.6, 4.0, 680.0, 0.0); ( 66141.7,  
 4154672.6, 4.0, 680.0, 0.0);  
 ( 66148.3, 4154668.7, 4.0, 680.0, 0.0); ( 66150.5,  
 4154653.8, 4.0, 680.0, 0.0);  
 ( 66155.0, 4154639.9, 4.0, 680.0, 0.0); ( 66156.6,  
 4154624.4, 4.0, 680.0, 0.0);  
 ( 66158.3, 4154612.2, 4.0, 680.0, 0.0); ( 66162.7,  
 4154597.3, 4.0, 680.0, 0.0);  
 ( 66162.2, 4154582.3, 4.0, 680.0, 0.0); ( 66165.5,  
 4154570.2, 4.0, 680.0, 0.0);  
 ( 66166.6, 4154560.8, 4.0, 680.0, 0.0); ( 66169.4,  
 4154553.0, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154558.5, 4.0, 680.0, 0.0); ( 66243.5,  
 4154558.5, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154570.3, 4.0, 680.0, 0.0); ( 66243.5,  
 4154570.3, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154582.0, 4.0, 680.0, 0.0); ( 66243.5,  
 4154582.0, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154593.7, 4.0, 680.0, 0.0); ( 66243.5,  
 4154593.7, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154605.5, 4.0, 680.0, 0.0); ( 66243.5,  
 4154605.5, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154617.2, 4.0, 680.0, 0.0); ( 66243.5,  
 4154617.2, 4.0, 680.0, 0.0);  
 ( 66211.3, 4154628.9, 4.0, 680.0, 0.0); ( 66243.5,  
 4154628.9, 4.0, 680.0, 0.0);

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 66211.3, 4154640.6, 4.0, 680.0, 0.0); ( 66243.5,  
4154640.6, 4.0, 680.0, 0.0);  
( 66211.3, 4154652.4, 4.0, 680.0, 0.0); ( 66243.5,  
4154652.4, 4.0, 680.0, 0.0);  
( 66211.3, 4154664.1, 4.0, 680.0, 0.0); ( 66243.5,  
4154664.1, 4.0, 680.0, 0.0);  
( 66211.3, 4154675.8, 4.0, 680.0, 0.0); ( 66243.5,  
4154675.8, 4.0, 680.0, 0.0);  
( 66211.3, 4154687.6, 4.0, 680.0, 0.0); ( 66243.5,  
4154687.6, 4.0, 680.0, 0.0);  
( 66074.1, 4154255.1, 4.0, 680.0, 0.0); ( 66079.1,  
4154259.0, 4.0, 680.0, 0.0);  
( 66085.8, 4154262.9, 4.0, 680.0, 0.0); ( 66092.9,  
4154265.1, 4.0, 680.0, 0.0);  
( 66119.0, 4154275.6, 4.0, 680.0, 0.0); ( 66123.9,  
4154278.4, 4.0, 680.0, 0.0);  
( 66130.6, 4154281.7, 4.0, 680.0, 0.0); ( 66140.6,  
4154286.2, 4.0, 680.0, 0.0);  
( 66110.3, 4154208.8, 4.3, 680.0, 0.0); ( 66092.4,  
4154205.4, 4.0, 680.0, 0.0);  
( 66150.5, 4154208.8, 4.7, 680.0, 0.0); ( 66097.6,  
4154192.3, 4.0, 680.0, 0.0);  
( 66142.5, 4154222.2, 4.2, 680.0, 0.0); ( 66150.5,  
4154222.2, 4.2, 680.0, 0.0);  
( 66110.3, 4154235.6, 4.0, 680.0, 0.0); ( 66118.4,  
4154235.6, 4.0, 680.0, 0.0);  
( 66126.4, 4154235.6, 4.0, 680.0, 0.0); ( 66134.4,  
4154235.6, 4.0, 680.0, 0.0);  
( 66142.5, 4154235.6, 4.0, 680.0, 0.0); ( 66150.5,  
4154235.6, 4.0, 680.0, 0.0);  
( 66126.4, 4154249.0, 4.0, 680.0, 0.0); ( 66134.4,  
4154249.0, 4.0, 680.0, 0.0);  
( 66142.5, 4154249.0, 4.0, 680.0, 0.0); ( 66150.5,  
4154249.0, 4.0, 680.0, 0.0);  
( 66126.4, 4154262.4, 4.0, 680.0, 0.0); ( 66134.4,  
4154262.4, 4.0, 680.0, 0.0);  
( 66142.5, 4154262.4, 4.0, 680.0, 0.0); ( 66150.5,  
4154262.4, 4.0, 680.0, 0.0);  
( 66159.9, 4154229.1, 4.0, 680.0, 0.0); ( 66162.2,  
4154217.5, 4.4, 680.0, 0.0);  
( 66166.6, 4154206.4, 4.8, 680.0, 0.0); ( 66084.1,  
4154219.7, 4.0, 680.0, 0.0);  
( 66090.4, 4154219.7, 4.0, 680.0, 0.0); ( 66096.6,  
4154219.7, 4.0, 680.0, 0.0);  
( 66102.9, 4154219.7, 4.0, 680.0, 0.0); ( 66084.1,  
4154231.9, 4.0, 680.0, 0.0);  
( 66090.4, 4154231.9, 4.0, 680.0, 0.0); ( 66096.6,  
4154231.9, 4.0, 680.0, 0.0);  
( 66102.9, 4154231.9, 4.0, 680.0, 0.0); ( 66084.1,

4154244.1, 4.0, 680.0, 0.0);  
 ( 66090.4, 4154244.1, 4.0, 680.0, 0.0); ( 66096.6,  
 4154244.1, 4.0, 680.0, 0.0);  
 ( 66102.9, 4154244.1, 4.0, 680.0, 0.0); ( 66084.1,  
 4154256.3, 4.0, 680.0, 0.0);  
 ( 66090.4, 4154256.3, 4.0, 680.0, 0.0); ( 66096.6,  
 4154256.3, 4.0, 680.0, 0.0);  
 ( 66175.4, 4154190.9, 5.0, 680.0, 0.0); ( 66121.3,  
 4154149.3, 4.9, 680.0, 0.0);  
 ( 66136.4, 4154149.3, 5.0, 680.0, 0.0); ( 66151.4,  
 4154149.3, 5.0, 680.0, 0.0);  
 ( 66166.5, 4154149.3, 5.0, 680.0, 0.0); ( 66106.2,  
 4154159.3, 4.4, 680.0, 0.0);  
 ( 66121.3, 4154159.3, 4.9, 680.0, 0.0); ( 66136.4,  
 4154159.3, 5.0, 680.0, 0.0);  
 ( 66151.4, 4154159.3, 5.0, 680.0, 0.0); ( 66166.5,  
 4154159.3, 5.0, 680.0, 0.0);  
 ( 66106.2, 4154169.3, 4.3, 680.0, 0.0); ( 66121.3,  
 4154169.3, 4.8, 680.0, 0.0);  
 ( 66136.4, 4154169.3, 5.0, 680.0, 0.0); ( 66151.4,  
 4154169.3, 5.0, 680.0, 0.0);  
 ( 66166.5, 4154169.3, 5.0, 680.0, 0.0); ( 66106.2,  
 4154179.3, 4.3, 680.0, 0.0);  
 ( 66121.3, 4154179.3, 4.8, 680.0, 0.0); ( 66136.4,  
 4154179.3, 5.0, 680.0, 0.0);  
 ( 66151.4, 4154179.3, 5.0, 680.0, 0.0); ( 66166.5,  
 4154179.3, 5.0, 680.0, 0.0);  
 ( 66106.2, 4154189.3, 4.3, 680.0, 0.0); ( 66121.3,  
 4154189.3, 4.8, 680.0, 0.0);  
 ( 66166.5, 4154189.3, 5.0, 680.0, 0.0); ( 66178.2,  
 4154181.0, 5.0, 680.0, 0.0);  
 ( 66176.8, 4154174.3, 5.0, 680.0, 0.0); ( 66179.6,  
 4154164.4, 5.0, 680.0, 0.0);  
 ( 66179.0, 4154161.0, 5.0, 680.0, 0.0); ( 66181.8,  
 4154151.1, 5.0, 680.0, 0.0);  
 ( 66097.1, 4154211.4, 4.0, 680.0, 0.0); ( 66099.9,  
 4154201.5, 4.1, 680.0, 0.0);  
 ( 66143.9, 4154278.4, 4.0, 680.0, 0.0); ( 66146.7,  
 4154272.9, 4.0, 680.0, 0.0);  
 ( 66078.0, 4154244.1, 4.0, 680.0, 0.0); ( 66157.7,  
 4154198.7, 5.0, 680.0, 0.0);

\*\*\* AERMOD - VERSION 18081 \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33



(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 66115.7, 4154199.8, 4.6, 680.0, 0.0); ( 66158.8,  
4154241.9, 4.0, 680.0, 0.0);  
( 65913.1, 4154678.1, 4.0, 680.0, 0.0); ( 65925.6,  
4154683.6, 4.0, 680.0, 0.0);  
( 65937.0, 4154683.6, 4.0, 680.0, 0.0); ( 65948.4,  
4154690.3, 4.0, 680.0, 0.0);  
( 65959.7, 4154690.3, 4.0, 680.0, 0.0); ( 65970.0,  
4154685.8, 4.0, 680.0, 0.0);  
( 65981.4, 4154685.8, 4.0, 680.0, 0.0); ( 65992.8,  
4154678.1, 4.0, 680.0, 0.0);  
( 65913.7, 4154703.0, 4.0, 680.0, 0.0); ( 65925.1,  
4154703.0, 4.0, 680.0, 0.0);  
( 65935.9, 4154708.0, 4.0, 680.0, 0.0); ( 65947.3,  
4154708.0, 4.0, 680.0, 0.0);  
( 65958.6, 4154708.0, 4.0, 680.0, 0.0); ( 65970.0,  
4154708.0, 4.0, 680.0, 0.0);  
( 65982.5, 4154703.6, 4.0, 680.0, 0.0); ( 65993.9,  
4154703.6, 4.0, 680.0, 0.0);  
( 66011.6, 4154675.9, 4.0, 680.0, 0.0); ( 66028.2,  
4154671.5, 4.0, 680.0, 0.0);  
( 66038.7, 4154669.3, 4.0, 680.0, 0.0); ( 66007.7,  
4154700.3, 4.0, 680.0, 0.0);  
( 66021.0, 4154695.8, 4.0, 680.0, 0.0); ( 66034.3,  
4154690.9, 4.0, 680.0, 0.0);  
( 66048.1, 4154688.6, 4.0, 680.0, 0.0); ( 66063.1,  
4154682.6, 4.0, 680.0, 0.0);  
( 65899.2, 4154699.7, 4.0, 680.0, 0.0); ( 65899.7,  
4154674.2, 4.0, 680.0, 0.0);  
( 65887.6, 4154693.6, 4.0, 680.0, 0.0); ( 65886.4,  
4154670.4, 4.0, 680.0, 0.0);  
( 65873.2, 4154677.0, 4.0, 680.0, 0.0); ( 65864.6,  
4154697.3, 4.0, 680.0, 0.0);  
( 65881.8, 4154705.1, 4.0, 680.0, 0.0); ( 65858.5,  
4154717.3, 4.0, 680.0, 0.0);  
( 65878.5, 4154717.3, 4.0, 680.0, 0.0); ( 65850.7,  
4154734.6, 4.0, 680.0, 0.0);  
( 65869.1, 4154734.6, 4.0, 680.0, 0.0); ( 65858.5,  
4154757.3, 4.0, 680.0, 0.0);  
( 65850.3, 4154749.0, 4.0, 680.0, 0.0); ( 65877.3,  
4154743.6, 4.0, 680.0, 0.0);  
( 65874.6, 4154762.9, 4.0, 680.0, 0.0); ( 65887.8,  
4154748.1, 4.0, 680.0, 0.0);  
( 65887.9, 4154766.9, 4.0, 680.0, 0.0); ( 65899.2,  
4154749.5, 4.0, 680.0, 0.0);  
( 65915.2, 4154755.6, 4.0, 680.0, 0.0); ( 65932.4,  
4154760.6, 4.0, 680.0, 0.0);  
( 65949.5, 4154760.6, 4.0, 680.0, 0.0); ( 65966.6,

4154760.6, 3.9, 680.0, 0.0);  
 ( 65983.8, 4154760.6, 3.7, 680.0, 0.0); ( 66003.1,  
 4154756.7, 3.2, 680.0, 0.0);  
 ( 66019.2, 4154749.5, 3.0, 680.0, 0.0); ( 66036.3,  
 4154749.5, 3.0, 680.0, 0.0);  
 ( 66054.6, 4154741.8, 3.1, 680.0, 0.0); ( 66070.0,  
 4154736.8, 3.0, 680.0, 0.0);  
 ( 66087.2, 4154735.1, 3.0, 680.0, 0.0); ( 65900.8,  
 4154774.5, 4.0, 680.0, 0.0);  
 ( 65916.3, 4154779.4, 4.0, 680.0, 0.0); ( 65933.5,  
 4154779.4, 4.0, 680.0, 0.0);  
 ( 65950.6, 4154779.4, 4.0, 680.0, 0.0); ( 65967.7,  
 4154779.4, 3.6, 680.0, 0.0);  
 ( 65984.9, 4154779.4, 3.1, 680.0, 0.0); ( 66002.0,  
 4154779.4, 3.0, 680.0, 0.0);  
 ( 66017.5, 4154773.9, 3.0, 680.0, 0.0); ( 66034.6,  
 4154773.9, 3.0, 680.0, 0.0);  
 ( 66047.4, 4154766.7, 3.0, 680.0, 0.0); ( 66061.7,  
 4154761.7, 3.0, 680.0, 0.0);  
 ( 66076.7, 4154757.8, 3.0, 680.0, 0.0); ( 66098.5,  
 4154732.9, 3.0, 680.0, 0.0);  
 ( 66090.7, 4154752.3, 3.0, 680.0, 0.0); ( 66107.9,  
 4154728.0, 3.1, 680.0, 0.0);  
 ( 66116.1, 4154722.4, 3.3, 680.0, 0.0); ( 66125.4,  
 4154722.4, 3.5, 680.0, 0.0);  
 ( 66134.8, 4154717.4, 3.8, 680.0, 0.0); ( 66144.1,  
 4154714.1, 3.9, 680.0, 0.0);  
 ( 66151.2, 4154710.8, 4.0, 680.0, 0.0); ( 66161.7,  
 4154707.5, 4.0, 680.0, 0.0);  
 ( 66171.6, 4154703.6, 4.0, 680.0, 0.0); ( 66181.4,  
 4154699.2, 4.0, 680.0, 0.0);  
 ( 66191.9, 4154698.1, 4.0, 680.0, 0.0); ( 66202.3,  
 4154691.4, 4.0, 680.0, 0.0);  
 ( 66236.0, 4154699.2, 4.0, 680.0, 0.0); ( 66106.8,  
 4154744.6, 3.0, 680.0, 0.0);  
 ( 66116.1, 4154744.6, 3.0, 680.0, 0.0); ( 66126.0,  
 4154740.1, 3.1, 680.0, 0.0);  
 ( 66135.3, 4154740.1, 3.1, 680.0, 0.0); ( 66143.6,  
 4154731.8, 3.3, 680.0, 0.0);  
 ( 66154.0, 4154727.4, 3.4, 680.0, 0.0); ( 66162.8,  
 4154725.2, 3.5, 680.0, 0.0);  
 ( 66171.6, 4154720.8, 3.8, 680.0, 0.0); ( 66182.0,  
 4154717.4, 3.9, 680.0, 0.0);

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33



WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES \*\*\* \*\*\*/ UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED (METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\*/ C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*/ 10:58:33

PAGE 12

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

DATA \*\*\* \*\*\*/ UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

Surface file: C:\Users\kheck\Desktop\724945\724945.SFC Met Version: 14134 Profile file: C:\Users\kheck\Desktop\724945\724945.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23293 Upper air station no.: 23230 Name: SAN\_JOSE\_INTERNATIONAL\_AIRPORT Name: OAKLAND/WSO\_AP Year: 2009 Year: 2009

Table with 14 columns: YR, MO, DY, JDY, HR, H0, U\*, W\*, DT/DZ, ZICNV, ZIMCH, M-O, LEN, Z0, BOWEN. It contains 6 rows of meteorological data for the first 24 hours.

1.00	1.76	342.	10.0	281.4	2.0								
09	01	01	1	07	-13.5	0.236	-9.000	-9.000	-999.	275.	88.6	0.32	1.10
1.00	2.36	5.	10.0	281.4	2.0								
09	01	01	1	08	-19.7	0.345	-9.000	-9.000	-999.	486.	189.6	0.47	1.10
0.74	2.86	333.	10.0	280.9	2.0								
09	01	01	1	09	-8.3	0.363	-9.000	-9.000	-999.	526.	525.4	0.47	1.10
0.39	2.86	327.	10.0	280.9	2.0								
09	01	01	1	10	8.1	0.382	0.288	0.014	106.	566.	-625.1	0.47	1.10
0.27	2.86	351.	10.0	280.9	2.0								
09	01	01	1	11	17.6	-9.000	-9.000	-9.000	189.	-999.	-99999.0	0.25	1.10
0.23	0.00	0.	10.0	280.9	2.0								
09	01	01	1	12	23.0	-9.000	-9.000	-9.000	259.	-999.	-99999.0	0.25	1.10
0.21	0.00	0.	10.0	281.4	2.0								
09	01	01	1	13	23.9	-9.000	-9.000	-9.000	315.	-999.	-99999.0	0.25	1.10
0.21	0.00	0.	10.0	281.4	2.0								
09	01	01	1	14	48.5	-9.000	-9.000	-9.000	407.	-999.	-99999.0	0.25	1.10
0.22	0.00	0.	10.0	283.1	2.0								
09	01	01	1	15	69.5	0.319	0.953	0.016	453.	433.	-42.6	0.32	1.10
0.25	2.36	32.	10.0	283.1	2.0								
09	01	01	1	16	24.5	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.25	1.10
0.33	0.00	0.	10.0	283.1	2.0								
09	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
0.57	0.00	0.	10.0	283.1	2.0								
09	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	282.5	2.0								
09	01	01	1	19	-24.2	0.212	-9.000	-9.000	-999.	235.	35.9	0.47	1.10
1.00	2.36	324.	10.0	281.4	2.0								
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	281.4	2.0								
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.9	2.0								
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.9	2.0								
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.10
1.00	0.00	0.	10.0	280.4	2.0								
09	01	01	1	24	-9.7	0.170	-9.000	-9.000	-999.	168.	45.7	0.47	1.10
1.00	1.76	310.	10.0	280.4	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	-999.	-99.00	282.6	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 18081 ***      *** C:\Lakes\AERMOD View\125 N Milpitas_TOTAL
PM2\125 N Milpitas_TOTAL P ***      02/08/21
*** AERMET - VERSION 14134 ***      ***
***                                  ***      10:58:33

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66313.29	4154531.41	0.02167	66314.95
4154502.63	0.04297		
66317.72	4154473.28	0.06990	66325.47
4154440.62	0.06671		
66316.90	4154570.04	0.01111	66316.90
4154590.04	0.00850		
66316.90	4154610.04	0.00673	66316.90
4154630.04	0.00553		
66316.90	4154650.04	0.00470	66359.43
4154488.56	0.02911		
66384.43	4154488.56	0.02164	66359.43
4154533.56	0.01373		
66384.43	4154533.56	0.01133	66359.43
4154578.56	0.00814		
66384.43	4154578.56	0.00716	66359.43
4154623.56	0.00518		
66384.43	4154623.56	0.00489	66368.66
4154451.14	0.03895		
66404.64	4154460.00	0.02435	66411.84
4154617.23	0.00473		
66412.95	4154580.69	0.00609	66446.16
4154610.03	0.00435		
66445.06	4154571.28	0.00557	66479.38
4154597.30	0.00408		
66414.05	4154542.49	0.00841	66435.64
4154504.84	0.01109		
66447.27	4154543.59	0.00689	66482.70
4154546.36	0.00563		
66504.29	4154586.22	0.00393	66536.96
4154582.90	0.00354		
66475.51	4154504.29	0.00852	66517.03
4154537.50	0.00514		
66450.59	4154470.52	0.01437	66477.17
4154479.93	0.01070		

4154519.24	66516.47	4154495.43	0.00725	66535.85
	0.00541			
4154569.06	66554.67	4154544.15	0.00418	66562.98
	0.00348			
4154512.04	66600.07	4154512.59	0.00427	66593.98
	0.00439			
4154500.41	66602.84	4154502.07	0.00452	66597.30
	0.00467			
4154509.82	66588.45	4154510.38	0.00454	66583.46
	0.00466			
4154506.50	66578.48	4154508.16	0.00481	66572.39
	0.00500			
4154497.09	66564.09	4154505.95	0.00522	66565.19
	0.00554			
4154498.20	66570.73	4154497.09	0.00539	66577.37
	0.00519			
4154499.86	66582.36	4154499.30	0.00503	66589.55
	0.00485			
4154570.17	66605.05	4154575.70	0.00291	66600.63
	0.00304			
4154556.88	66596.20	4154564.63	0.00317	66592.32
	0.00336			
4154545.81	66588.45	4154549.68	0.00355	66584.02
	0.00369			
4154539.72	66590.11	4154541.38	0.00370	66595.09
	0.00367			
4154552.45	66600.63	4154545.81	0.00347	66602.84
	0.00332			
4154567.40	66607.27	4154559.65	0.00314	66611.14
	0.00298			
4154502.03	66615.57	4154572.94	0.00285	66628.27
	0.00407			
4154507.03	66637.73	4154502.03	0.00392	66628.27
	0.00395			
4154512.03	66637.73	4154507.03	0.00380	66624.39
	0.00389			
4154517.03	66637.73	4154512.03	0.00369	66624.39
	0.00377			
4154522.03	66637.73	4154517.03	0.00359	66624.39
	0.00366			
4154527.03	66636.07	4154522.03	0.00351	66621.07
	0.00360			
4154532.03	66636.07	4154527.03	0.00341	66621.07
	0.00349			
4154537.03	66636.07	4154532.03	0.00331	66621.07
	0.00340			

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*  
 PM2\125 N Milpitas\_TOTAL P \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\*

\*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 02/08/21  
 \*\*\*  
 10:58:33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
4154382.49	66636.07	4154537.03	0.00322	66081.88
4154381.38	66090.73	4154385.26	0.00601	66107.34
4154356.47	66110.11	4154374.74	0.00839	66115.65
4154366.43	66120.63	4154347.06	0.00756	66112.88
4154368.65	66127.27	4154338.75	0.00785	66097.93
4154354.81	66099.59	4154362.00	0.00551	66102.91
4154341.52	66105.13	4154348.16	0.00539	66108.45
4154437.30	66068.59	4154435.08	0.01457	66074.68
4154441.73	66081.88	4154438.96	0.02113	66091.29
4154419.58	66096.82	4154442.83	0.03732	66081.32
4154425.12	66087.97	4154421.80	0.01244	66094.61
4154304.98	66101.81	4154426.23	0.01924	66045.89
4154312.73	66054.20	4154308.30	0.00187	66062.50
4154362.00	66071.91	4154317.16	0.00240	66047.55
4154348.16	66048.66	4154355.36	0.00264	66050.87
4154333.77	66054.20	4154340.97	0.00238	66058.07
			0.00232	



4154360.34	66059.18	4154327.68	0.00223	66032.05
	0.00257			
4154345.40	66034.26	4154351.49	0.00234	66037.59
	0.00222			
4154331.00	66040.91	4154339.31	0.00213	66045.34
	0.00204			
4154381.38	66047.55	4154323.25	0.00195	66051.98
	0.00379			
4154369.76	66058.62	4154381.38	0.00395	66019.32
	0.00277			
4154373.63	66025.41	4154371.97	0.00293	66032.05
	0.00307			
4154421.80	66036.48	4154375.29	0.00321	66054.75
	0.00854			
4154419.58	66047.55	4154422.90	0.00818	66040.91
	0.00717			
4154415.15	66034.82	4154417.92	0.00659	66021.53
	0.00564			
4154417.37	66013.78	4154415.15	0.00533	66005.48
	0.00520			
4154489.34	65997.17	4154419.58	0.00506	66056.41
	0.03774			
4154472.73	66058.62	4154481.59	0.03660	66061.39
	0.03425			
4154455.01	66063.05	4154463.32	0.02943	66067.48
	0.02635			
4154432.87	66028.17	4154433.42	0.00843	66034.26
	0.00890			
4154436.19	66040.35	4154435.08	0.01000	66047.55
	0.01122			
4154569.62	66000.49	4154435.08	0.00663	65967.83
	0.01562			
4154443.94	65970.04	4154560.20	0.01578	65996.06
	0.00732			
4154538.06	65970.04	4154548.58	0.01541	65970.04
	0.01487			
4154513.14	65970.04	4154526.43	0.01405	65971.15
	0.01302			
4154491.00	65974.47	4154500.97	0.01219	65976.69
	0.01131			
4154473.28	65980.01	4154483.25	0.01076	65984.44
	0.00998			
4154453.91	65988.87	4154463.87	0.00921	65992.19
	0.00823			
4154558.54	65932.40	4154554.67	0.01121	65943.47
	0.01248			
4154540.27	65956.76	4154553.56	0.01382	65955.65
	0.01304			

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*  
 PM2\125 N Milpitas\_TOTAL P \*\*\*

\*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 02/08/21

\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 10:58:33

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
65956.76	4154533.63	0.01276	66027.62
4154498.75	0.02433		
66023.19	4154506.50	0.02405	66020.42
4154516.47	0.02436		
66017.66	4154526.99	0.02432	66014.89
4154535.84	0.02389		
66013.78	4154545.26	0.02370	66012.67
4154554.11	0.02330		
66011.01	4154561.86	0.02269	66009.91
4154571.83	0.02198		
66007.69	4154583.46	0.02087	66005.48
4154595.64	0.01966		
65999.94	4154606.15	0.01823	65963.40
4154584.01	0.01510		
65957.86	4154594.53	0.01441	65950.11
4154606.71	0.01350		
65951.22	4154617.78	0.01334	65953.44
4154622.21	0.01337		
65965.61	4154625.53	0.01414	65973.37
4154623.32	0.01482		
65980.01	4154621.66	0.01542	65987.21
4154617.78	0.01624		
66040.91	4154507.61	0.03169	66038.69
4154514.25	0.03127		
66033.16	4154523.66	0.02943	66030.94
4154535.29	0.02870		
66028.73	4154548.58	0.02748	66027.62
4154560.20	0.02634		
66024.85	4154571.83	0.02469	66020.98
4154585.67	0.02264		

4154612.80	66016.55	4154600.06	0.02058	66011.57
		0.01879		
4154570.72	65918.56	4154566.85	0.01044	65926.86
		0.01126		
4154575.71	65935.17	4154571.83	0.01204	65943.47
		0.01293		
4154618.89	65900.29	4154620.55	0.00990	65908.04
		0.01036		
4154614.46	65919.11	4154617.78	0.01107	65931.29
		0.01193		
4154629.96	65901.39	4154631.07	0.00992	65908.59
		0.01033		
4154627.19	65915.79	4154628.85	0.01075	65922.99
		0.01121		
4154624.98	65930.18	4154625.53	0.01169	65939.04
		0.01229		
4154636.60	65947.90	4154634.39	0.01259	65952.88
		0.01282		
4154638.82	65957.86	4154637.71	0.01308	65962.29
		0.01331		
4154635.50	65975.58	4154638.27	0.01415	65980.01
		0.01459		
4154630.51	65986.10	4154634.39	0.01506	65991.08
		0.01567		
4154535.84	66080.77	4154521.45	0.05551	66076.89
		0.04741		
4154567.95	66073.57	4154551.35	0.04065	66070.25
		0.03468		
4154602.28	66067.48	4154582.90	0.03015	66063.05
		0.02516		
4154631.07	66060.84	4154617.78	0.02193	66058.07
		0.01951		
4154659.30	66055.86	4154644.91	0.01734	66051.98
		0.01537		
4154542.49	66106.24	4154529.20	0.06591	66100.15
		0.05373		
4154572.94	66096.27	4154556.33	0.04500	66091.84
		0.03692		
4154606.71	66088.52	4154586.78	0.03161	66085.75
		0.02567		
4154636.05	66082.98	4154620.55	0.02230	66080.77
		0.01919		
4154664.29	66076.34	4154648.78	0.01703	66071.91
		0.01484		
4154558.54	66147.76	4154547.47	0.06415	66146.10
		0.05321		
4154584.01	66144.99	4154569.62	0.04460	66143.88
		0.03589		
4154609.48	66140.56	4154598.40	0.02932	66138.35
		0.02534		

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\*      02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
    \*\*\*      10:58:33

PAGE 16

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
    INCLUDING SOURCE(S):      PAREA1      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66136.13	4154623.87	0.02120	66133.92
4154637.16	0.01819		
66132.26	4154651.00	0.01565	66130.60
4154664.29	0.01367		
66136.13	4154672.59	0.01238	66141.67
4154672.59	0.01218		
66148.31	4154668.71	0.01239	66150.53
4154653.77	0.01439		
66154.96	4154639.93	0.01658	66156.62
4154624.42	0.01994		
66158.28	4154612.24	0.02330	66162.71
4154597.30	0.02845		
66162.15	4154582.35	0.03600	66165.47
4154570.17	0.04390		
66166.58	4154560.76	0.05188	66169.35
4154553.01	0.05999		
66211.31	4154558.54	0.04541	66243.54
4154558.54	0.02942		
66211.31	4154570.27	0.03443	66243.54
4154570.27	0.02317		
66211.31	4154582.00	0.02720	66243.54
4154582.00	0.01895		
66211.31	4154593.73	0.02218	66243.54
4154593.73	0.01593		
66211.31	4154605.46	0.01855	66243.54
4154605.46	0.01367		
66211.31	4154617.19	0.01582	66243.54
4154617.19	0.01193		

66211.31	4154628.92	0.01370	66243.54
4154628.92	0.01055		
66211.31	4154640.65	0.01202	66243.54
4154640.65	0.00943		
66211.31	4154652.38	0.01066	66243.54
4154652.38	0.00850		
66211.31	4154664.11	0.00954	66243.54
4154664.11	0.00772		
66211.31	4154675.84	0.00860	66243.54
4154675.84	0.00705		
66211.31	4154687.57	0.00780	66243.54
4154687.57	0.00648		
66074.13	4154255.15	0.00175	66079.11
4154259.03	0.00189		
66085.75	4154262.90	0.00209	66092.95
4154265.12	0.00232		
66118.97	4154275.64	0.00359	66123.95
4154278.41	0.00395		
66130.60	4154281.73	0.00449	66140.56
4154286.16	0.00544		
66110.33	4154208.76	0.00207	66092.35
4154205.44	0.00168		
66150.53	4154208.76	0.00321	66097.60
4154192.27	0.00166		
66142.49	4154222.16	0.00324	66150.53
4154222.16	0.00355		
66110.33	4154235.56	0.00242	66118.37
4154235.56	0.00267		
66126.41	4154235.56	0.00295	66134.45
4154235.56	0.00325		
66142.49	4154235.56	0.00358	66150.53
4154235.56	0.00394		
66126.41	4154248.96	0.00324	66134.45
4154248.96	0.00360		
66142.49	4154248.96	0.00399	66150.53
4154248.96	0.00441		
66126.41	4154262.36	0.00359	66134.45
4154262.36	0.00401		
66142.49	4154262.36	0.00447	66150.53
4154262.36	0.00496		
66159.94	4154229.13	0.00417	66162.15
4154217.51	0.00389		
66166.58	4154206.43	0.00373	66084.09
4154219.72	0.00165		
66090.36	4154219.72	0.00176	66096.63
4154219.72	0.00189		
66102.90	4154219.72	0.00202	66084.09
4154231.90	0.00175		
66090.36	4154231.90	0.00187	66096.63
4154231.90	0.00201		

66102.90 4154231.90 0.00216 66084.09  
 4154244.08 0.00186  
 \*\*\* AERMOD - VERSION 18081 \*\*\* \*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33

PAGE 17

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
66090.36	4154244.08	0.00200	66096.63
4154244.08	0.00215		
66102.90	4154244.08	0.00232	66084.09
4154256.26	0.00198		
66090.36	4154256.26	0.00213	66096.63
4154256.26	0.00231		
66175.44	4154190.86	0.00361	66121.30
4154149.34	0.00168		
66136.36	4154149.34	0.00193	66151.42
4154149.34	0.00221		
66166.48	4154149.34	0.00253	66106.24
4154159.34	0.00154		
66121.30	4154159.34	0.00177	66136.36
4154159.34	0.00204		
66151.42	4154159.34	0.00234	66166.48
4154159.34	0.00269		
66106.24	4154169.34	0.00162	66121.30
4154169.34	0.00186		
66136.36	4154169.34	0.00215	66151.42
4154169.34	0.00249		
66166.48	4154169.34	0.00287	66106.24
4154179.34	0.00170		
66121.30	4154179.34	0.00196	66136.36
4154179.34	0.00228		
66151.42	4154179.34	0.00265	66166.48
4154179.34	0.00306		

4154189.34	66106.24	4154189.34	0.00178	66121.30
		0.00208		
4154180.97	66166.48	4154189.34	0.00328	66178.21
		0.00345		
4154164.39	66176.83	4154174.29	0.00326	66179.59
		0.00312		
4154151.11	66179.04	4154161.00	0.00304	66181.81
		0.00292		
4154201.49	66097.10	4154211.38	0.00181	66099.87
		0.00178		
4154272.87	66143.88	4154278.41	0.00528	66146.65
		0.00521		
4154198.68	66078.00	4154244.08	0.00173	66157.72
		0.00321		
4154241.87	66115.65	4154199.79	0.00208	66158.83
		0.00458		
4154683.61	65913.12	4154678.08	0.00958	65925.60
		0.00984		
4154690.26	65936.98	4154683.61	0.01022	65948.36
		0.01029		
4154685.83	65959.74	4154690.26	0.01061	65970.02
		0.01113		
4154678.08	65981.40	4154685.83	0.01144	65992.78
		0.01226		
4154703.04	65913.67	4154703.04	0.00886	65925.05
		0.00915		
4154708.03	65935.88	4154708.03	0.00923	65947.26
		0.00948		
4154708.03	65958.64	4154708.03	0.00972	65970.02
		0.00994		
4154703.60	65982.50	4154703.60	0.01040	65993.88
		0.01058		
4154671.48	66011.57	4154675.91	0.01290	66028.17
		0.01365		
4154700.27	66038.69	4154669.27	0.01405	66007.69
		0.01099		
4154690.86	66020.98	4154695.84	0.01145	66034.26
		0.01196		
4154682.56	66048.11	4154688.65	0.01220	66063.05
		0.01277		
4154674.25	65899.18	4154699.72	0.00856	65899.73
		0.00919		
4154670.38	65887.55	4154693.63	0.00837	65886.45
		0.00877		
4154697.33	65873.16	4154677.02	0.00820	65864.58
		0.00764		
4154717.33	65881.82	4154705.08	0.00796	65858.49
		0.00716		
4154734.57	65878.49	4154717.33	0.00762	65850.74
		0.00670		

65869.08	4154734.57	0.00706	65858.49
4154757.33	0.00642		
65850.26	4154749.03	0.00644	65877.32
4154743.56	0.00701		

^ \*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\*      02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
    \*\*\*      10:58:33

PAGE 18

\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
    INCLUDING SOURCE(S):      PAREA1      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
-----	-----	-----	-----
-----	-----	-----	-----
65874.62	4154762.94	0.00652	65887.84
4154748.06	0.00707		
65887.91	4154766.88	0.00660	65899.18
4154749.54	0.00720		
65915.21	4154755.63	0.00723	65932.35
4154760.61	0.00725		
65949.49	4154760.61	0.00738	65966.63
4154760.61	0.00749		
65983.77	4154760.61	0.00754	66003.13
4154756.74	0.00772		
66019.16	4154749.54	0.00804	66036.30
4154749.54	0.00795		
66054.55	4154741.79	0.00822	66070.03
4154736.81	0.00831		
66087.17	4154735.15	0.00814	65900.84
4154774.46	0.00654		
65916.32	4154779.44	0.00653	65933.46
4154779.44	0.00665		
65950.60	4154779.44	0.00673	65967.74
4154779.44	0.00678		
65984.88	4154779.44	0.00679	66002.02
4154779.44	0.00676		
66017.50	4154773.90	0.00692	66034.64
4154773.90	0.00681		



66047.35	4154766.71	0.00702	66061.72
4154761.72	0.00709		
66076.65	4154757.85	0.00707	66098.49
4154732.94	0.00807		
66090.73	4154752.31	0.00713	66107.90
4154727.96	0.00820		
66116.12	4154722.42	0.00839	66125.45
4154722.42	0.00819		
66134.78	4154717.44	0.00831	66144.11
4154714.12	0.00830		
66151.23	4154710.79	0.00834	66161.66
4154707.47	0.00827		
66171.55	4154703.60	0.00823	66181.43
4154699.17	0.00819		
66191.87	4154698.06	0.00789	66202.30
4154691.42	0.00792		
66235.99	4154699.17	0.00626	66106.79
4154744.56	0.00725		
66116.12	4154744.56	0.00707	66126.00
4154740.13	0.00712		
66135.33	4154740.13	0.00693	66143.56
4154731.83	0.00721		
66153.99	4154727.40	0.00722	66162.77
4154725.18	0.00713		
66171.55	4154720.75	0.00716	66181.98
4154717.43	0.00706		
66194.64	4154713.56	0.00691	66210.61
4154711.34	0.00654		
66222.15	4154706.91	0.00638	65678.61
4154862.02	0.00345		
65714.88	4153989.87	0.00020	67105.13
4154013.18	0.00253		
67112.04	4154867.20	0.00053	66221.88
4154539.70	0.07338		
66095.26	4154492.74	0.09219	66160.24
4154517.90	0.12152		
66129.22	4154504.90	0.11842	66195.46
4154530.06	0.10429		
66145.57	4154512.45	0.12027	66178.27
4154525.86	0.10982		
66111.61	4154499.45	0.10918	66208.46
4154536.76	0.08728		

▲ \*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\*      02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
    \*\*\*      10:58:33

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.12152 AT (	66160.24, 4154517.90,
4.00,	680.00, 0.00) DC		
	2ND HIGHEST VALUE IS	0.12027 AT (	66145.57, 4154512.45,
4.00,	680.00, 0.00) DC		
	3RD HIGHEST VALUE IS	0.11842 AT (	66129.22, 4154504.90,
4.00,	680.00, 0.00) DC		
	4TH HIGHEST VALUE IS	0.10982 AT (	66178.27, 4154525.86,
4.00,	680.00, 0.00) DC		
	5TH HIGHEST VALUE IS	0.10918 AT (	66111.61, 4154499.45,
4.00,	680.00, 0.00) DC		
	6TH HIGHEST VALUE IS	0.10429 AT (	66195.46, 4154530.06,
4.00,	680.00, 0.00) DC		
	7TH HIGHEST VALUE IS	0.09219 AT (	66095.26, 4154492.74,
4.00,	680.00, 0.00) DC		
	8TH HIGHEST VALUE IS	0.08728 AT (	66208.46, 4154536.76,
4.00,	680.00, 0.00) DC		
	9TH HIGHEST VALUE IS	0.07338 AT (	66221.88, 4154539.70,
4.00,	680.00, 0.00) DC		
	10TH HIGHEST VALUE IS	0.06990 AT (	66317.72, 4154473.28,
4.00,	680.00, 0.00) DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* C:\Lakes\AERMOD View\125 N Milpitas\_TOTAL  
 PM2\125 N Milpitas\_TOTAL P \*\*\* 02/08/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 10:58:33

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of                0 Fatal Error Message(s)  
A Total of                1 Warning Message(s)  
A Total of                13130 Informational Message(s)  
  
A Total of                43872 Hours Were Processed  
  
A Total of                11611 Calm Hours Identified  
  
A Total of                1519 Missing Hours Identified ( 3.46 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
MX W481    43873                MAIN: Data Remaining After End of Year. Number of Hours=  
          48

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

## **HARP2 Output Files**

HARP2 - HRACalc (dated 19044) 2/8/2021 12:22:45 PM - Output Log

GLCs loaded successfully  
Pollutants loaded successfully  
\*\*\*\*\*

RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*  
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 0.42

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 0.42  
2<9 Years Bin: 0  
2<16 Years Bin: 0  
16<30 Years Bin: 0  
16 to 70 Years Bin: 0

\*\*\*\*\*  
PATHWAYS ENABLED

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

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*  
INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

\*\*\*\*\*

#### TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|FAH changed|

Calculating cancer risk

Cancer risk saved to: C:\Users\kheck\Desktop\HARP2\2.8.20MilpitasCancerRisk.csv

HRA ran successfully

\*HARP - HRACalc v19044 2/8/2021 12:22:45 PM - Cancer Risk - Input File: C:\Users\kheck\Desktop\HARP2\2.8.20MilpitasHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1	residential_Milpitas		9901	DieselExhP	0.09897	6.95E-06	0.42YrCanr*		6.95E-06

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: 7  
Max: 9.9E-02 [ug/m<sup>3</sup>] at (66160.24, 4154517.90)



Google Earth

© 2021 Google

600 m



**IMPACT**   
**SCIENCES**