

AIR QUALITY ASSESSMENT

**Chino Valley Fire Station 68 Development
City of Chino Hills, CA**

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1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality study is to determine potential significant air quality impacts (if any) that may be created by construction, area or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to bring those impacts to a level that would be considered less than significant.

1.2 Project Location

The proposed Project site is generally located south of the intersection of Pipeline Avenue and Soquel Canyon Road in Chino Hills, CA. A project vicinity map is shown in Figure 1-A.

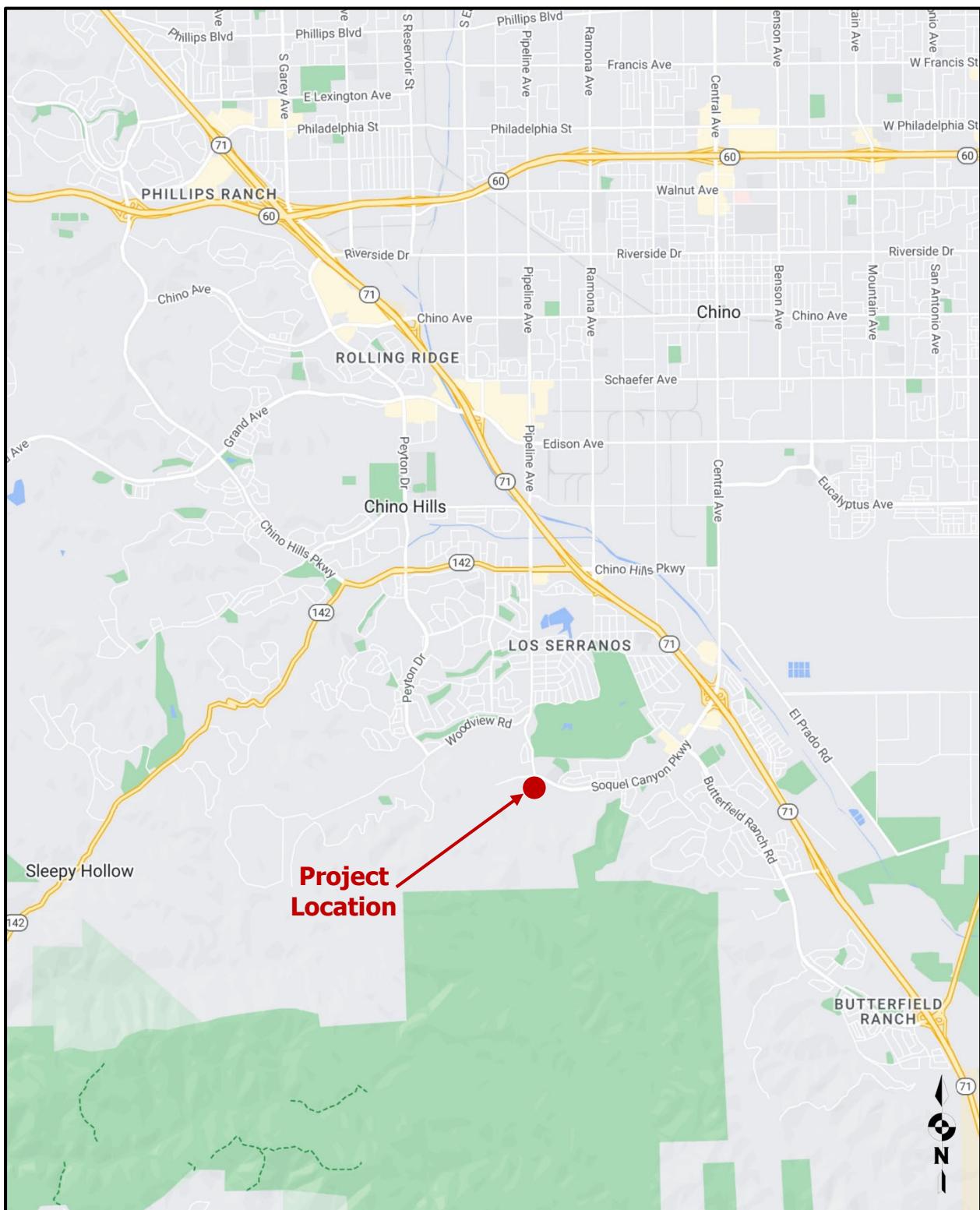
1.3 Project Description

The Chino Valley Fire District (CVFD) identified a significant need to build a fire station in the Soquel Canyon area of Chino Hills through a Standards of Cover Assessment and Master Plan update conducted in 2018. To support this requirement, The CVFD is proposing to construct a new fire station and emergency resource facility (ERF) which is expected to consist of approximately 18,745 square-foot in total on a 3.74 acre project site. Site improvements proposed include approximately 56,115-square-feet of hardscape including visitor and secured parking areas, 88,600 square-feet of landscaping, security fencing, concrete masonry site walls, hose tower, an emergency generator, an above ground fuel dispensing tank, and carports with PV arrays. The Project is expected to commence in early 2024 and be completed in early 2025. The project would require 14,307 Cubic Yards (CY) of export during the grading operations.

Following the construction of the Project, operations of the new Fire Station and ERF will be added to the three existing Chino Hills fire stations, under the Chino Valley Fire District in order to maintain the appropriate levels of response times to calls for service within its service area.

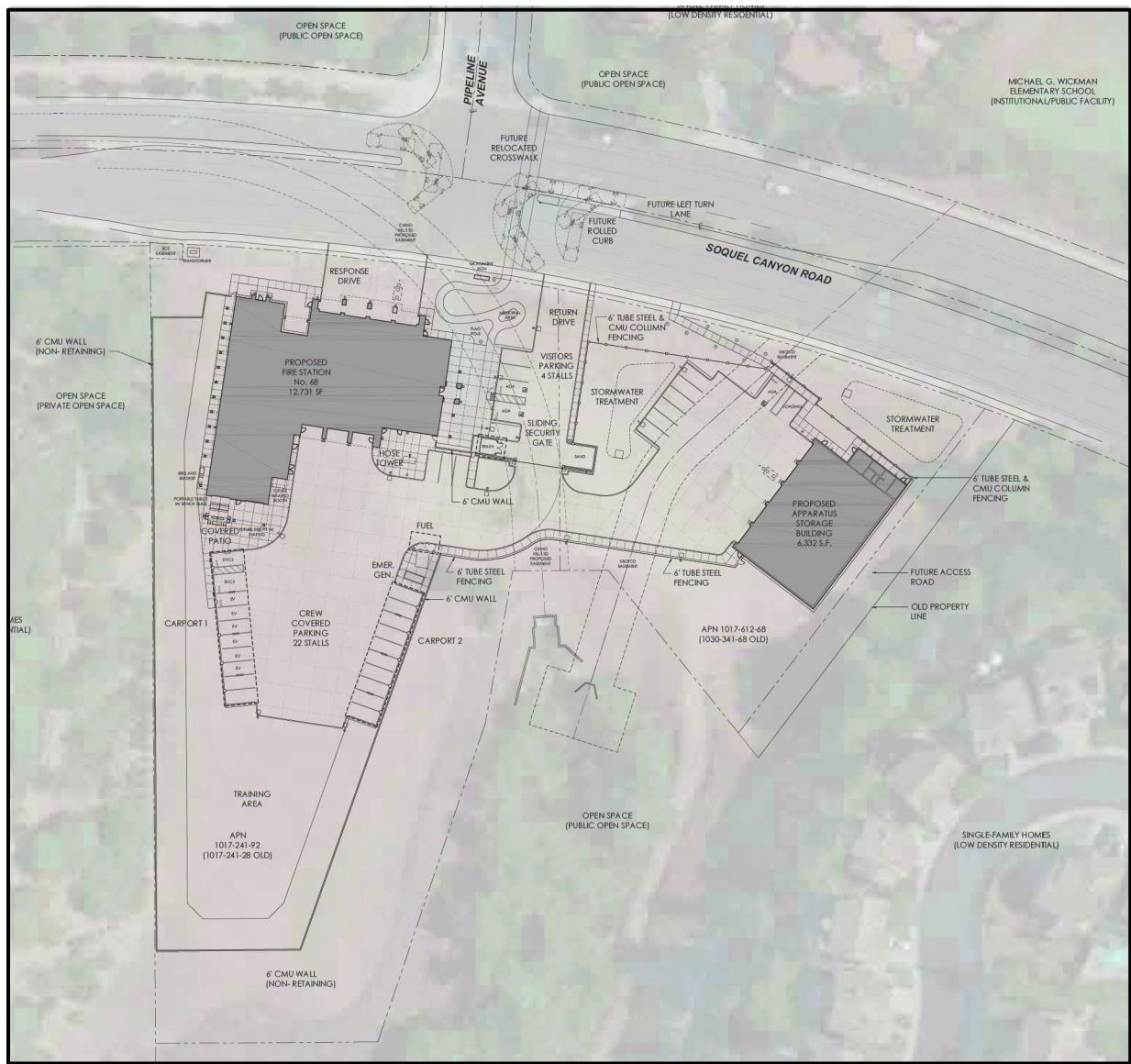
The Fire Department anticipate eight calls daily at the opening and forecasts as many as 12 calls per day at the peak. The site expects to operate with as little as one ladder truck or an engine company, an ambulance as well as a Battalion Chief unit. The project site plan is shown in Figure 1-B.

Figure 1-A: Project Vicinity Map



Source: (Google, 2023)

Figure 1-B: Site Plan Map



Source: (PBK Architects, 2023)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The project is located on two separate parcels having assessor's Parcel Numbers (APN) 1017-241-28 and 1030-341-68. The site is zoned within Planned Development PD-41-163 (Kaufman and Broad, south of Soquel Canyon Parkway). The Project site is designated under the General Plan Land Use Map as Institutional/Public Facility and Public Open Space. The Project proposes to change the portion of the designated Public Open Space to Institutional/Public Facility. The surrounding area to the east is also zoned within PD-41-163 with the single-family residential areas designated as Low Density Residential and Public Open Space.

The Mark Wickham Elementary School to the northeast is under Planned District PD-43-161 and is designated as Institutional/Public Facility. Other portions of the surrounding areas are zoned as private open space (OS-1) with low density residential (R-S) to the west, and public open space (OS-2) with low density residential (R-S) to the north.

The site topography ranges in elevation from roughly 765 feet above mean sea level (MSL) on the northeastern boundary to approximately 800 feet above MSL on the southwestern boundary.

2.2 Climate and Meteorology

The Project is located in the South Coast Air Basin (SCAB). Climate within the SCAB area often varies dramatically over short geographical distances due to the size and topography. Most of southern California is dominated by high-pressure systems for much of the year, which keeps Chino Hills mostly sunny and warm. Typically, during the winter months, the high-pressure system drops to the south and brings cooler, moister weather from the north.

It is common for inversion layers to develop within high-pressure areas, which mostly define pressure patterns over the SCAB. These inversions are caused when a thin layer of the atmosphere increases in temperature with height. An inversion acts like a lid preventing vertical mixing of air through convective overturning.

Daytime temperature highs within the City of Chino Hills typically range between 60 °F in the winter to approximately 89 °F in the summer with the month of August usually being the hottest month. Chino Hills usually receives an average seasonal precipitation of 21 inches of rain per year with the months of February and March usually being the wettest months of the year (City Data, 2023)

2.3 Regulatory Standards

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. **Primary Standards** set limits to protect public health which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare and include protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The Environmental Protection Agency's (EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards (NAAQS) for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below (EPA, 2022):

1. **Carbon Monoxide (CO):** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen (EPA, 2022).*
2. **Lead (Pb):** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children (EPA, 2022).*
3. **Nitrogen Dioxide (NO₂):** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO₂ is usually visible as a reddish-brown air layer over urban areas. NO₂ along with other traffic-related pollutants is associated with*

respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO₂ above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO₂ exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children (EPA, 2022).

4. **Particulate Matter (PM₁₀ or PM_{2.5}):** *is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM₁₀ particles are 10 microns (μm) or less and PM_{2.5} particles are 2.5 (μm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness (EPA, 2022).*
5. **Ozone (O₃):** *Ozone at the ground level is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics (EPA, 2022).*

It should be noted that Oxides of Nitrogen (NO_x) is a family of poisonous, highly reactive gases. These gases form when fuel is burned at high temperatures. NO_x pollution is emitted by automobiles, trucks and various non-road vehicles (e.g., construction equipment, boats, etc.) as well as industrial sources such as power plants, industrial boilers, cement kilns, and turbines. NO_x often appears as a brownish gas. It is a strong oxidizing agent and plays a major role in the atmospheric reactions with Volatile Organic Compounds (VOCs) which produces ozone on hot summer days (EPA, 2023).

6. **Sulfur Dioxide (SO₂):** *is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO₂ is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO₂ exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO₂ results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality (EPA, 2022).*

2.3.2 State Standards and Definitions

The State of California Air Resources Board (ARB) sets the laws and regulations for air quality at State level. The California Ambient Air Quality Standards (CAAQS) are either the same as or more restrictive than the NAAQS in that the State standards also restrict four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. **Visibility Reducing Particles:** *Particles in the Air that obstruct the visibility* (CARB, 2023).
2. **Sulfates:** *are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain* (CARB, 2023).
3. **Hydrogen Sulfide (H_2S):** *is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H_2S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H_2S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 ppm) can cause a loss of consciousness and possibly death* (CARB, 2023).
4. **Vinyl Chloride:** *also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC)* (CARB, 2023).

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards											
Pollutant	Average Time	California Standards ¹		Federal Standards ²							
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷					
Ozone (O_3) ⁸	1 Hour	0.09 ppm (180 $\mu g/m^3$)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry					
	8 Hour	0.070 ppm (137 $\mu g/m^3$)		0.070 ppm (137 $\mu g/m^3$)							
Respirable Particulate Matter (PM10) ⁹	24 Hour	50 $\mu g/m^3$	Gravimetric or Beta Attenuation	150 $\mu g/m^3$	Same as Primary Standard	Inertial Separation and Gravimetric Analysis					
	Annual Arithmetic Mean	20 $\mu g/m^3$		-							
Fine Particulate Matter (PM2.5) ⁹	24 Hour	No Separate State Standard		35 $\mu g/m^3$	Same as Primary Standard	Inertial Separation and Gravimetric Analysis					
	Annual Arithmetic Mean	12 $\mu g/m^3$	Gravimetric or Beta Attenuation	12.0 $\mu g/m^3$							
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m ³)	-	Non-Dispersive Infrared Photometry					
	1 hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)							
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		-							
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 $\mu g/m^3$)	Gas Phase Chemiluminescence	0.053 ppm (100 $\mu g/m^3$) ⁸	Same as Primary Standard	Gas Phase Chemiluminescence					
	1 Hour	0.18 ppm (339 $\mu g/m^3$)		0.100 ppm ⁸ (188/ $\mu g/m^3$)							
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm ¹⁰ (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararoosaniline Method) ⁹					
	24 Hour	0.04 ppm (105 $\mu g/m^3$)		0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9)	-						
	3 Hour	-		-	0.5 ppm (1300 $\mu g/m^3$)						
	1 Hour	0.25 ppm (655 $\mu g/m^3$)		75 ppb (196 $\mu g/m^3$)	-						
Lead ^{12,13}	30 Day Average	1.5 $\mu g/m^3$	Atomic Absorption	-	-	-					
	Calendar Quarter	-		1.5 $\mu g/m^3$	Same as Primary Standard	High Volume Sampler and Atomic Absorption					
	Rolling 3-Month Average	-		0.15 $\mu g/m^3$							
Visibility Reducing Particles	8 Hour	See footnote 14									
Sulfates	24 Hour	25 $\mu g/m^3$	Ion Chromatography								
Hydrogen Sulfide	1 Hour	0.03 ppm (42 $\mu g/m^3$)	Ultraviolet Fluorescence								
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 $\mu g/m^3$)	Gas Chromatography								
<p>1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.</p> <p>2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.</p> <p>3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.</p> <p>4. Any equivalent procedure which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.</p> <p>5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.</p> <p>6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.</p> <p>7. Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.</p> <p>8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.</p> <p>9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.</p> <p>10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.</p> <p>11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.</p> <p>12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.</p> <p>13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.</p> <p>14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.</p>											
Source: (California Air Resources Board, 5/4/2016)											

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants for designated periods defined in the footnote of Table 2.1 above are designated as “non-attainment areas” for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the PM_{2.5} standard. The state therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed for California Air basins to attain ambient air quality standards.

The SCAQMD has jurisdiction over an area of approximately 10,743 square miles, consisting of the SCAB, and the Riverside County portions of the Salton Sea Air Basin (SSAB) and Mojave Desert Air Basin (MDAB). The district prepares Air Quality Management Plans (AQMP) to demonstrate how the region will reduce air pollution emissions to meet the federal and state health-based standards to comply with Clean Air Act requirements and will be ultimately a part of the SIP. The SCAQMD just updated and adopted their AQMP (SCAQMD, 2022).

The latest AQMP identifies the path South Coast Air Basin must take for the attainment of federal PM and ozone standards and highlights the significant amount of reductions needed and the urgent need to engage in interagency coordinated planning to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the timeframes allowed under the federal Clean Air Act. The plan also includes a number of measures to incorporate NOx reduction requirements which would be necessary to achieve attainment in the future.

The City of Chino Hills Valley lies within the SCAB. The SCAQMD is the government agency, which regulates sources of air pollution within the City of Chino Hills. A complete listing of the current attainment status by pollutants for the SCAB is shown on Table 2.2.

Table 2.2: South Coast Air Basin Attainment Status by Pollutant

County Air Basin Attainment Status by Pollutant			
Pollutant	Average Time	California Standards	Federal Standards
Ozone (O ₃)	1 Hour	Non-attainment	Nonattainment (Extreme)
	8 Hour		
Respirable Particulate Matter (PM10)	24 Hour	Non-attainment	Serious Nonattainment
	Annual Arithmetic Mean		Serious Nonattainment
Fine Particulate Matter PM2.5	24 Hour	No State Standard	Non-attainment
	Annual Arithmetic Mean	Non-attainment	Non-attainment
Carbon Monoxide (CO)	8 hour	Attainment	Attainment Maintenance ¹
	1 hour		
Nitrogen Dioxide (NO ₂)	Annual Arithmetic Mean	No State Standard	Attainment
	1 Hour	Non-attainment	No Federal Standard
Sulfur Dioxide (SO ₂)	Annual Arithmetic Mean	No State Standard	Attainment
	24 Hour	Attainment	Attainment
	1 Hour	Attainment	No Federal Standard
Lead	30 Day Average	Attainment	No Federal Standard
	Calendar Quarter	No State Standard	Attainment

1. Maintenance Area (defined by U.S. Department of Transportation) is any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended.

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in the most recent CEQA guidelines Appendix G (California, 2018):

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

- A:* Conflict with or obstruct implementation of the SCAQMD AQMP or applicable portions of the State Implementation Plan (SIP)?
- B:* Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard.
- C:* Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations?
- D:* Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

2.5 Air Quality Impact Assessment Screening Thresholds

To determine whether a project would create potential air quality impacts, the City of Chino Hills uses South Coast Air Quality Management District's (SCAQMD) Screening Level Thresholds¹ (SLTs) for use in determining CEQA air quality impacts. The screening thresholds for construction and daily operations are shown in Table 2.3 below.

Demonstrating a projects compliance with SCAQMD Screening thresholds are a significant part of demonstrating compliance with SCAQMDs AQMP and is critical to insuring less than significant impacts to questions A and B identified in section 2.4 above. In addition, since SLTs were developed to align with attainment of both state and federal standards for the purpose of long term health, minimizing Project emissions to levels less than these screening thresholds is the impetus to reducing the magnitude of long-term air quality impacts from emissions of criteria pollutants and ozone precursors to less than significant.

Table 2.3: Screening Threshold for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	150 and 55
Nitrogen Oxide (NO _x)	100
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Operational Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	150 and 55
Nitrogen Oxide (NO _x)	55
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	55

¹ SCAQMD SLTs are tied to achieving or maintaining attainment designations with the NAAQS and CAAQS. The federal and State ambient air quality standards, in turn, are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health. Projects generating emissions exceeding SLTs have a potential to increase human health risks and should be avoided as was established by the California Supreme Court through its decision in Sierra Club v. County of Fresno (226 Cal.App.4th 704).

2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the SCAB. This data is used to track ambient air quality patterns throughout the surrounding area. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS. The SCAPCD is responsible for monitoring and reporting monitoring data. The District operates approximately 30 monitoring sites that collected data on criteria pollutants within the SCAB.

Ambient Data was obtained from the California Environmental Protection Agency's Air Resources Board Website (California Air Resources Board, 2021). Table 2.4 identifies the criteria pollutants monitored closest to the Project site which is the Upland monitoring station located at 1350 San Bernardino Road in the City of Upland.

Table 2.4: Three-Year Ambient Air Quality Summary near the Project Site

Pollutant	Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2019	2020	2021
O ₃ (ppm)	upland	1 Hour	0.09 ppm	-	0.131	0.158	0.124
		8 Hour	0.070 ppm	0.075 ppm	0.107	0.123	0.100
PM ₁₀ (µg/m ³)		24 Hour	50 µg/m ³	150 µg/m ³	125.9	174.8	124.3
		Annual Arithmetic Mean	20 µg/m ³	-	29.0	33.5	32.6
PM _{2.5} (µg/m ³)	San Bernardino – 4 th Street	24 Hour	-	35 µg/m ³	91.1	74.0	83.8
		Annual Arithmetic Mean	12 µg/m ³	15 µg/m ³	Data Not Provided	Data Not Provided	Data Not Provided
NO ₂ (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Data Not Provided	0.013	0.014
		1 Hour	0.18 ppm	-	0.057	0.055	0.065
All ambient emissions reported are assumed to be taken by the district in compliance with both the NAAQS and CAAQS. Methodologies for those measurements are discussed in Table 2.1 of this report.							

2.7 Localized Significance Thresholds

In June 2003 the SCAQMD proposed a methodology for calculating LSTs for NO₂, CO, PM_{2.5} and PM₁₀. The LST methodology was developed to be used as a tool to assist lead agencies to analyze localized impacts associated with project-specific level proposed projects and would not be applicable to regional projects such as general plans. The LST methodology was last updated to incorporate the most recent ambient air quality standards (July 2008). (South Coast Air Quality Management District, 2008). The LST methodology is often utilized by most agencies governed under SCAQMD CEQA review. SCAQMD developed mass rate look-up tables for projects to assist agencies with development of LSTs (South Coast Air Quality Management District, 2014).

Per the requirements of SCAQMDs LSTs methodology, emissions for gases in attainment such as NO₂ and CO are calculated by adding emission impacts from the project development to the peak background ambient NO₂ and CO concentrations and comparing the total concentration to the most stringent ambient air quality standards. Also, according to SCAQMD Rule 403, emissions for non-attainment particulate matter such as PM 10 and PM 2.5 can produce no more than 10.4 µg/m³. The LSTs derived by SCAQMD differentiated by Source Receptor area for which the proposed project is would be represented by SRA #33 within the Southwest San Bernardino area. The project was analyzed using a construction schedule where all buildings are under construction simultaneously using the appropriate equipment and quantities for this scenario with a 2-acre disturbed area. Table 2/5 below shows the worst case project LST at 25 meters (SCAQMD, 2009).

Table 2.5: LST Emission Thresholds (2-Acre Site)

Pollutant	LST @ 25 meters (lb/day)
CO	1,232
PM ₁₀ (Construction)	6
PM ₁₀ (Operation)	2
PM _{2.5} (Construction)	5
PM _{2.5} (Operation)	2
NO ₂ (Corrected utilizing NO ₂ /NO _x Ratio) Construction and Operation	170

3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using the CalEEMod 2020.4.0 air quality model, which was developed by Breeze Software for SCAQMD in 2021. Emissions from the construction phase of the project were estimated using the CalEEMod Model, Version 2020.4.0² which is a conservative air quality model in the CalEEMod lineup.

CalEEMod relies on the total area of the site and estimates site disturbance based on the maximum acres that can be graded given the construction equipment input in an 8-hour day. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the project. Construction emissions have several different types of sources which contribute to emissions of pollutants. These source types include off-road equipment usage, on-road vehicle travel, fugitive dust, architectural coating, and paving off-gassing. The CalEEMod construction module also uses OFFROAD2011 for default emission rates for construction equipment. The CalEEMod input/output model is shown in ***Attachment A*** to this report.

Fugitive dust calculations for grading within CalEEMod are based on methodologies described in Section 11.9, Western Surface Coal Mining, of the USEPA AP-42 which estimates the emission factor of PM₁₀ applying a scaling factor to that of PM15. Similarly, the emission factor of PM_{2.5} is scaled from that of total suspended particulates (TSP). This methodology was adopted by SCAQMD as the preferred method for fugitive dust emissions calculations. This method utilizes maximum area method based on assumed disturbed grading areas.

Significant health risks or increased risks of cancerous and non-cancerous health problems can occur when sensitive receptors (i.e., Schools, Daycares, or Residential Care Facilities) are exposed to Toxic Air Contaminants (TAC) for a significant quantity of time. Normally these impacts are analyzed over a period of 9, 30 or 70 years of continuous exposure or what is typically referred to as full lifetime and encompasses periods of potentially increased

² Since the analysis was started, an updated version of CalEEMod has been released by SCAQMD. The updated version of the model Version 2022.1.1.14 is the latest update to CalEEMod and brings a new web-based platform, with many new features and components, such as a geospatial interface, location-specific vehicle miles traveled analysis, climate risks analysis, and health and equity. These significant updates enable CalEEMod to deliver enhanced analysis of GHG and criteria pollutant emissions and support local governments to better address climate change, public health, and equity. The latest version of CalEEMod includes construction equipment emission factors from OFFROAD 2017-ORION Version 1.0.1, which takes into account phaseout of older equipment and additional control measures. Mobile source emissions were calculated using EMFAC2021, which also includes phaseout of older vehicles and updated emission control measures. The 2020 version of CalEEMod provides a more conservative and consistent estimate of emissions for the project because it does not include the additional control measures included in the updated version which has been updated 30 times since it was released.

susceptibility to adverse health effects from chemical exposure, particularly during infancy, childhood and the later years of life. From a practical standpoint, chronic exposure for humans is considered to be greater than 12% of a lifetime of 70 years or at least 8 years in 70 (Office of Environmental Health Hazard Assessment, August 2003).

Health risks are analyzed for projects by completing air dispersion models for diesel particulates matter (DPM) released onsite from diesel equipment onsite and using the dispersed emissions at nearby sensitive receptors to determine if cancer risks are increased to greater than 10 in one million. If this increased risk is greater than 10, the project would be required to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. Generally, this requires using equipment that has diesel particulate filters installed on the exhaust stacks of the equipment or specialized equipment designed to limit diesel particulates.

The United States EPA first began adopting emission standards for Non-Road Diesel Engines in 1994. The standards are published in the US Code of Federal Regulations, Title 40, Part 89. The regulations are better known as the Tier 1-4 standards with each Tier generally requiring more stringent emission standards for diesel engines. Originally, this was limited to equipment sizes exceeding 50 HP. However, in 1998, Tier 1 regulations were also adopted for equipment under 50 HP and more stringent Tier 2 and Tier 3 standards for all equipment have been phased in from 2000 to 2008. The Tier 1-3 standards are met through advanced engine design, with no or only limited use of exhaust gas after treatment (oxidation catalysts) (DieselNet, 2013). It should also be noted that Tier 3 standards only apply to engines greater than 50 HP and Tier 1 and -2 standards are required for all portable engines.

On May 11, 2004, the EPA signed the final rule introducing Tier 4 emissions standards, which are to be phased in over the period of 2008-2015 under Federal Register 69 FR 38957-39273 (US EPA, 2004). The requirements of Tier 4 standards require that emissions of PM and NOx be further reduced by 90% which can be achieved through control technologies including advanced exhaust gas after treatment.

To simplify matters, the CVFD has indicated that all construction equipment would be Tier 4 rated since Tier 4 equipment is common and sensitive receptors are adjacent to the Project site. Given this, construction health risk impacts from diesel particulates would be less than significant.

Chronic Non-Cancer risks are also known with respect to diesel particulate matter (DPM) and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health

Hazard Assessment (OEHHA, February 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system. Non-Cancer risks would also be less than significant since the Project would use Tier 4 construction equipment.

3.2 Construction Assumptions

Pending approval, the Project is expected to kick off construction in early 2024 with full buildout expected roughly one year later in 2025. The project site has some development onsite consisting of multiple buildings. To minimize dust and construction diesel particulate emissions, the project will wet the construction site at least three times daily and utilize Tier 4 diesel construction equipment. Table 3.1 shows the expected timeframes as well as the expected number of pieces of equipment to complete the project for the scenario identified.

Table 3.1: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	1/1/2024	1/26/2024	
Rubber Tired Dozers			2
Tractors/Loaders/Backhoes			2
Grading	1/27/2024	3/1/2024	
Excavators			1
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
Building Construction	3/2/2024	1/17/2025	
Cranes			1
Forklifts			1
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			
Paving	12/25/2024	1/17/2025	
Cement and Mortar Mixers			2
Pavers			1
Paving Equipment			2
Rollers			2
Tractors/Loaders/Backhoes			1
Paving	12/25/2024	1/17/2025	
Air Compressors			1
This equipment list is based upon equipment inventory and estimates within CalEEMod 2020.4.0.			

3.3 Project Operations

Based on the projected traffic volumes by the Project Traffic Study, the proposed project would generate as much as 87 average daily traffic (ADT) (LL&G, 2023). CalEEMod was updated to reflect these trips once fully operational.

Operational air quality emission sources would also include area sources such as landscaping, consumer products and architectural coatings during maintenance, energy sources from natural gas and electrical usage, mobile sources from vehicular traffic to include trucks and passenger vehicles, solid waste from trash generation, and water uses, which are calculated within CalEEMod.

3.4 Fire Truck Operational Emissions

The fire station expects as many as 12 calls per day once fully operational. Each call could include an ambulance, a fire truck, a ladder truck or perhaps all three. For the purposes of this analysis, it is assumed that all 12 calls would include as many as three heavy diesel trucks each.

These trucks would be a mixture of heavy-heavy duty trucks (HHD) or trucks over 26,000 lbs and medium-heavy duty trucks (MHD) or trucks between 14,000 and 26,000 lbs. For the purposes of this analysis, it's assumed that all truck trips are HHDT trucks. In addition, it's assumed that each truck would idle onsite daily. Based on discussions with the CVFD, idling wouldn't be expected for more than two to three minutes daily to ensure trucks are operational for any emergency services required. As noted in Section 3.1, DPM is a known carcinogen and based on projected operations, it's suggested that project generated health risks be calculated at expected sensitive residential receptors.

CalEEMod includes mobile emissions reported within the EMFAC 2017 emission model in terms of both driving and idling emissions for each respective vehicle class from each scenario year and adjusted in units of grams per VMT. Similarly, idling emissions were divided by the number of trips to derive emission factors in units of grams per trip. Idling emissions are multiplied by the number of trips times the respective emission factor (CAPCOA, 2021).

Based on CalEEMod, the following Emission Factors are used within this analysis. Table 3.2 below shows that the truck movement PM₁₀ exhaust would be generated at a rate of 0.0255 grams/VMT and Idling events would generate 0.0029 grams per trip.

Table 3.2: Operational Truck Emission Rates

EMFAC2017 Acronyms for Each Vehicle Emission	EMFAC2017 Description of Each Vehicle	EMFAC2017 Emission Rate Unit	CalEEMod Emission Factor Unit	HHD Emissions
PM10_RUNEX	Running Exhaust	grams/VMT	grams/VMT	0.025521
PM10_IDLEX	Idle Exhaust	grams/vehicle/day	grams/trip	0.002913

Cancer risks would be calculated in a similar fashion to those explained within Section 3.1 of this report. Air dispersion modeling utilizing AERMOD is the preferred dispersion modeling for projects with a high number of sources and will be used within the analysis. A screenshot graphical representation of the modeling locations is shown on an aerial below in Figure 3-A on the following page. The idling trucks are identified as light blue dots of which seven were assumed. This means that up to seven trucks were assumed onsite and outside with an idling event conducted each morning for 2-3 minutes each to ensure equipment is operating properly. It should be noted that discussions with CVFD, these idling events would typically be within the indoor parking garages but were assumed to occur outside as a worst-case operations event as it relates to the Projects potential to expose nearby receptors to Project generated DPM. In addition, all calls were assumed to have three trucks leave the site for each call.

All truck movement is represented as volume sources (identified as red squares) and a route was selected so that each vehicle would leave the site and then return passing the closest sensitive receptors such as the nearby school and residential units. Also, six sensitive receptors were added to determine operational emissions at discrete sensitive receptor locations (nearest homes and the nearby school) and are represented by red circles with the modeled receptor number used in AERMOD.

As noted above, chronic non-cancer risks can be expected when RELs exceed 5 µg/m³. Chronic non-cancer risks can be calculated from AERMOD outputs. It should be noted that OEHHA does not classify DPM as a source for acute health risks.

3.5 Odor Impacts (Onsite)

Potential onsite odor generators would include short term construction odors from activities such as paving and possibly painting. The construction odors would be considered short term and would not be considered an impact. Given this, the Project will not create offensive odors and would therefore not be considered an impact under CEQA. The site would not generate operational odors and therefore would have a less than significant long term odor impact.

Figure 3-A: AERMOD Modeling Sources and Receptors - Onsite Operations



4.0 FINDINGS

4.1 Construction Findings

Based on the input parameters and construction design features identified in Section 3.2 of this report, no significant construction impacts are expected. Table 4.1 shows the calculated emissions from construction.

Table 4.1: Expected Construction Emissions Summary

Year	ROG	NO_x	CO	SO₂	PM₁₀ (Dust)	PM₁₀ (Exhaust)	PM₁₀ (Total)	PM_{2.5} (Dust)	PM_{2.5} (Exhaust)	PM_{2.5} (Total)
2024 (lb/day)	11.51	5.99	34.97	0.06	5.93	0.05	5.98	2.85	0.05	2.90
2025 (lb/day)	11.49	3.84	34.82	0.06	0.70	0.02	0.72	0.19	0.02	0.20
Significance Threshold (lb/day)	75	100	550	150	-	-	150	-	-	55
LST Screening Threshold (lb/day)	-	170	1232	-	-	-	6	-	-	5
Exceeds Thresholds?	No	No	No	No	-	-	No	-	-	No

Expected Construction emissions are based upon CalEEMod modeling assumptions for equipment and durations listed in Table 2 above using Tier 4 equipment and wetting the site three times daily.

4.2 Operational Findings

Once construction is completed the proposed project would generate air quality emissions from daily operations which are calculated within CalEEMod. Based on the estimated emissions output parameters identified in Section 3.3 of this report, a less than significant impact operational impacts would be expected. Operational emissions are shown in Table 4.2. It should be noted that these emissions include operations of fire trucks as well per the Project traffic analysis.

Table 4.2: Expected Daily Pollutant Generation

	ROG	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Summer Scenario						
Area Source Emission Estimates (Lb/Day)	0.39	0.00	0.01	0.00	0.00	0.00
Energy Source Emissions (Lb/Day)	0.00	0.02	0.01	0.00	0.00	0.00
Operational Vehicle Emissions (Lb/Day)	0.27	0.33	2.54	0.01	0.59	0.16
Total (Lb/Day)	0.67	0.35	2.56	0.01	0.59	0.16
SCAQMD Thresholds	55	55	550	150	150	55
LST Screening Threshold (lb/day)	-	170	1,232	-	2	2
Significant?	No	No	No	No	No	No
Winter Scenario						
Area Source Emission Estimates (Lb/Day)	0.39	0.00	0.01	0.00	0.00	0.00
Energy Source Emissions (Lb/Day)	0.00	0.02	0.01	0.00	0.00	0.00
Operational Vehicle Emissions (Lb/Day)	0.24	0.35	2.28	0.01	0.59	0.16
Total (Lb/Day)	0.63	0.37	2.30	0.01	0.59	0.16
SCAQMD Thresholds	55	55	550	150	150	55
-	-	170	1,232	-	2	2
Significant?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CALLEEMOD						

4.3 Operational Health Risks

The proposed Fire Station is forecasted to have as many as 12 calls per day and for the purposes of this analysis, it's assumed that each call would have as many as three diesel trucks leaving the site. In addition, it's assumed that as many as 7 trucks daily onsite will idle for a few minutes each morning.

Utilizing the AERMOD dispersion model, a visual representation of the dispersed emissions output was created and shown in Figure 4-A. Specific modeled emissions for each discreet receptor is shown in the AERMOD output files shown in **Attachment B** at the end of the report. Based on actual receptor emission estimates shown in the AERMOD output files, we find that the annual concentration from the truck operations will produce 0.0009 µg/m³ PM₁₀ exhaust emissions at the highest receptor location (Receptor 3). Based on review of the AERMOD output files, the sensitive residential receptors would be exposed to between 0.0003 and 0.0009 µg/m³ of diesel particulates from the project during operations.

Figure 4-A: PM10–Truck Operations Idling/Movement AERMOD Plot



Based on the analysis, the inhalation cancer risk for a 70-year duration is between 0.241 and 0.755 per one million exposed at receptors shown. Calculations for these risks are shown in **Attachment C** to this report. Based on this, the cancer risk from operations would be less than significant. In addition, it should be noted that the non-cancer health risks could be exposed if DPM -case DPM emissions exceed $5 \mu\text{g}/\text{m}^3$. Since the Project would only produce $0.0009 \mu\text{g}/\text{m}^3$ at the nearest sensitive receptors, chronic non-cancer risks wouldn't be expected. Therefore, a less than significant non-cancer risk is expected.

4.4 Cumulative Impact Findings

Cumulative impacts would exist when either there are direct air quality impacts or when multiple construction projects occur within the same area simultaneously. To illustrate this, if a project was to produce air quality emissions simultaneous to a nearby construction project the addition of both project emissions to the environment could exceed significance thresholds. For this project, the construction emissions were found to be less than significant as shown in Table 4.1 above. If a nearby project was to be under construction at the same time, that project would need to simultaneously generate emissions such that the combined emissions offsite would increase and then ultimately exceed thresholds. Based on review of the Project site and a list of cumulative projects in the area (provided as **Attachment D** to this report), a scenario where significant cumulative air quality impacts could be generated is not expected. Therefore, a less than significant cumulative impact would be expected.

The project is located on two separate parcels having assessor's Parcel Numbers (APN) 1017-241-28 (zoned Public Open Space) and 1030-341-68 (zoned Institutional/Public Facility). The Project proposes to change the portion of the designated Public Open Space to Institutional/Public Facility which is required for the City's fire station. Lot 1030-341-68 is roughly 1.5 acres in size and since this area is zoned Institutional/Public Facility it would have an allowable Floor Area Ratio of 0.5 to 1 or $\frac{1}{2}$ square foot per square foot. Given this, the project site could construct a 32,670 SF building on this single Lot and would remain consistent with the General Plan. Land uses allowed on this 1.5 acre site could consist of churches or even a hospital within this parcel alone. These uses generate considerably higher traffic intensity and in the case of a hospital consume more energy per square foot than a fire station which was estimated at 87 ADT within the Project traffic study.

The Project as designed would be constructed on a portion of Public Open Space and if the proposed Project was developed on this open space Lot alone, the land use intensity would be higher than what was assumed in the General Plan which could introduce significant cumulative operational air quality impacts in the City. However, since the Project would limit construction on both lots to 18,745 SF and since the allowable FAR for Lot 1030-341-689 alone is 32,670 SF, the project as designed would have a lower intensity after encumbering

both lots to the 18,745 SF limit as the Project proposes. Given this, since the Project would have a less than significant direct and cumulative air quality impact, the Project would not conflict with SCQAMD's ability to implement the 2022 AQMP.

4.5 Odor Impact Findings

Odor impacts from construction operations would be considered short term events and would not be considered an impact. Long term operations will not create offensive odors and would not create any operational odor impacts.

4.6 Conclusion of Findings

During construction of the proposed Project, fugitive dust emissions would be expected but would not exceed thresholds established by the SCAQMD. Given this, a less than significant construction impact would be expected. As a design feature, the project would require that all construction equipment is Tier 4 or equivalent which is the highest rated equipment as it relates to diesel particulate and NOx emission reductions. Given this, health risks related to DPM from construction equipment would not be expected.

Air quality emissions generated once the Project is operational in 2025 would be expected, however were shown to be less than significant. In addition, health risks impacts from diesel particulate matter generated from fire trucks and equivalent sources were also shown to be less than significant.

Finally, since the proposed project would have a fairly low FAR and generate only 87 ADT the Project intensity was shown to be less than what would be allowed on APN 1030-341-68. This finding would also be true even though the Project also would require some of APN 1017-241-28, which is zoned Public Open Space. Since the intensity of the Project is less than allowed under the City's General Plan, and since Air Quality and Health Risks are less than significant, the project as a whole would be consistent with both the RAQS and SIP.

As identified in this report, the project will implement Project Design Features which have an effect on reducing air quality emissions. These features were assumed within this analysis and modeled results assume the features are implemented. Based on this, the following design features will be a condition for approval by the City of Chino Hills.

1. In accordance with SCAQMDs Rule 403. All soil will be wet at least three times daily during earthwork activities.
2. The Project shall utilize Tier 4 diesel construction equipment during construction of the Project.

5.0 REFERENCES

- California. (2018). *Final Adopted Text for Revisions to the CEQA Guidelines*. Retrieved from http://resources.ca.gov/ceqa/docs/2018_CEQA_FINAL_TEXT_122818.pdf
- California Air Resources Board. (2021). [www.arb.gov](http://www.arb.ca.gov/adam/topfourdisplay.php). Retrieved from iADAM: Air Quality Data Statistics: <https://www.arb.ca.gov/adam/topfourdisplay.php>
- California Air Resources Board. (5/4/2016). [www.arb.ca.gov](http://www.arb.ca.gov/research/aaqs/aaqs2.pdf). Retrieved from Ambient Air Quality Standards: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>
- CAPCOA. (2021). *Appendix A - Calculation Details for CalEEMod*. Retrieved from http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6
- CARB. (2023). <https://ww2.arb.ca.gov>. Retrieved from Visibility reducing particles and health: <https://ww2.arb.ca.gov/resources/visibility-reducing-particles-and-health>
- CARB. (2023). <https://ww2.arb.ca.gov>. Retrieved from Sulfate and Health: <https://ww2.arb.ca.gov/resources/sulfate-and-health>
- CARB. (2023). <https://ww2.arb.ca.gov>. Retrieved from Hydrogen Sulfide & Health: <https://ww2.arb.ca.gov/resources/hydrogen-sulfide-and-health>
- CARB. (2023). <https://ww2.arb.ca.gov>. Retrieved from <https://ww2.arb.ca.gov/resources/vinyl-chloride-and-health>
- City Data. (2023). <http://www.city-data.com>. Retrieved from <https://www.city-data.com/city/Chino-Hills-California.html>
- DieselNet. (2013). *Emission Standards - Nonroad Diesel Engines*. Retrieved from <http://www.dieselnet.com/standards/us/nonroad.php>
- EPA. (2022, AUG 9). <https://www.epa.gov>. Retrieved 2023, from Criteria Air Pollutants: <https://www.epa.gov/criteria-air-pollutants>
- EPA. (2022). <https://www.epa.gov>. Retrieved from What is carbon monoxide?: [https://www.epa.gov/indoor-air-quality-iaq/what-carbon-monoxide#:~:text=Carbon%20monoxide%20\(CO\)%20is%20a,soluble%20in%20alcohol%20and%20benzene](https://www.epa.gov/indoor-air-quality-iaq/what-carbon-monoxide#:~:text=Carbon%20monoxide%20(CO)%20is%20a,soluble%20in%20alcohol%20and%20benzene)
- EPA. (2022). <https://www.epa.gov>. Retrieved from Learn about Lead: <https://www.epa.gov/lead/learn-about-lead#lead>
- EPA. (2022). <https://www.epa.gov>. Retrieved from What is NO₂ and how does it get in the air?: <https://www.epa.gov/air-quality/no2-and-how-does-it-get-in-the-air>
- EPA. (2022). <https://www.epa.gov>. Retrieved from What is PM, and how does it get into the air?: <https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#PM>
- LL&G. (2023). *Focused Traffic Impact Assessment for the Proposed Chino Valley Fire Station 68 Project*.
- Office of Environmental Health Hazard Assessment. (August 2003). *Air Toxics Hot Spots Program Risk Assessment Guidelines - The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health

- Hazard Assessment. Oakland: Office of Environmental Health Hazard Assessment. Retrieved 2015, from http://oehha.ca.gov/air/hot_spots/pdf/HRAfinalnoapp.pdf
- PBK Architects. (2023). *Proposed Site Plan*.
- SCAQMD. (2009, Oct 21). *Localized Significance Thresholds Lookup Tables*. Retrieved 2015, from <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>
- SCAQMD. (2016). Air Quality Management Plan (AQMP). CA. Retrieved June 6, 2016, from <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp>
- South Coast Air Quality Management District. (2008, July). *Finalized Localized Significance Threshold Methodology*. Retrieved from <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>
- South Coast Air Quality Management District. (2014). *Localized Significance Thresholds*. Retrieved 2014, from <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>
- US EPA. (2004, June 29). *Federal Register / Vol. 69, NO. 124*. Retrieved 2015, from <http://www.gpo.gov/fdsys/pkg/FR-2004-06-29/pdf/04-11293.pdf>

ATTACHMENT A

CALLEEMOD 2020.4.0

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Chino Fire Department
San Bernardino-South Coast County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	18.75	1000sqft	2.45	18,750.00	0
Parking Lot	56.12	1000sqft	1.29	56,120.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 3.74 acre site... updated to add 600 sf per email

Construction Phase - cs

Off-road Equipment - cs

Trips and VMT - Updated to reflect Project Export

Grading -

Vehicle Trips - Updated to reflect TS

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 equipment PDF

Architectural Coating -

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	8.00	25.00
tblGrading	MaterialExported	0.00	7,948.00
tblGrading	MaterialExported	0.00	6,359.00
tblLandUse	LotAcreage	0.43	2.45
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblVehicleTrips	ST_TR	0.00	4.79

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	0.00	4.79
tblVehicleTrips	WD_TR	33.98	4.79

2.0 Emissions Summary

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****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	lb/day										lb/day						
2024	13.4619	23.4776	32.3382	0.0564	13.9485	1.0790	14.7697	6.9609	1.0120	7.7181	0.0000	5,429.756 6	5,429.756 6	1.2057	0.3824	5,554.533 9	
2025	13.2718	21.6741	32.0681	0.0562	0.7028	0.9374	1.6402	0.1882	0.8793	1.0674	0.0000	5,412.063 7	5,412.063 7	1.2003	0.0445	5,455.325 9	
Maximum	13.4619	23.4776	32.3382	0.0564	13.9485	1.0790	14.7697	6.9609	1.0120	7.7181	0.0000	5,429.756 6	5,429.756 6	1.2057	0.3824	5,554.533 9	

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	lb/day										lb/day						
2024	11.5051	5.9927	34.9653	0.0564	5.9327	0.0535	5.9843	2.8493	0.0514	2.8989	0.0000	5,429.756 6	5,429.756 6	1.2057	0.3824	5,554.533 9	
2025	11.4908	3.8412	34.8215	0.0562	0.7028	0.0170	0.7199	0.1882	0.0167	0.2048	0.0000	5,412.063 7	5,412.063 7	1.2003	0.0445	5,455.325 9	
Maximum	11.5051	5.9927	34.9653	0.0564	5.9327	0.0535	5.9843	2.8493	0.0514	2.8989	0.0000	5,429.756 6	5,429.756 6	1.2057	0.3824	5,554.533 9	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	13.98	78.22	-8.35	0.00	54.71	96.50	59.15	57.51	96.40	64.67	0.00	0.00	0.00	0.00	0.00	0.00

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day											lb/day					
Area	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Energy	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004		20.8524	
Mobile	0.2719	0.3312	2.5353	5.6600e-003	0.5856	4.2700e-003	0.5899	0.1562	4.0000e-003	0.1602	590.8353	590.8353	0.0303	0.0267		599.5469	
Total	0.6656	0.3486	2.5574	5.7600e-003	0.5856	5.6100e-003	0.5912	0.1562	5.3400e-003	0.1615	611.5810	611.5810	0.0308	0.0271	620.4168		

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	lb/day											lb/day					
Area	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Energy	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004		20.8524	
Mobile	0.2719	0.3312	2.5353	5.6600e-003	0.5856	4.2700e-003	0.5899	0.1562	4.0000e-003	0.1602	590.8353	590.8353	0.0303	0.0267		599.5469	
Total	0.6656	0.3486	2.5574	5.7600e-003	0.5856	5.6100e-003	0.5912	0.1562	5.3400e-003	0.1615	611.5810	611.5810	0.0308	0.0271	620.4168		

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	N20	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	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/27/2024	3/1/2024	5	25	
3	Building Construction	Building Construction	3/2/2024	1/17/2025	5	230	
4	Paving	Paving	12/25/2024	1/17/2025	5	18	
5	Architectural Coating	Architectural Coating	12/25/2024	1/17/2025	5	18	

Acres of Grading (Site Preparation Phase): 20

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 28,125; Non-Residential Outdoor: 9,375; Striped Parking Area: 3,367 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	4	10.00	0.00	795.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	994.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****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	lb/day										lb/day					
Fugitive Dust					13.1406	0.0000	13.1406	6.7404	0.0000	6.7404			0.0000			0.0000
Off-Road	1.6780	17.1518	10.7334	0.0233		0.7753	0.7753		0.7132	0.7132		2,257.495 5	2,257.495 5	0.7301		2,275.748 5
Total	1.6780	17.1518	10.7334	0.0233	13.1406	0.7753	13.9159	6.7404	0.7132	7.4537		2,257.495 5	2,257.495 5	0.7301		2,275.748 5

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	lb/day										lb/day					
Hauling	0.0949	4.3865	1.3350	0.0219	0.6961	0.0454	0.7415	0.1909	0.0434	0.2343		2,391.119 1	2,391.119 1	0.1008	0.3790	2,506.578 4
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
Worker	0.0363	0.0210	0.3512	9.7000e-004	0.1118	5.3000e-004	0.1123	0.0296	4.9000e-004	0.0301		99.9750	99.9750	2.2100e-003	2.2300e-003	100.6938
Total	0.1312	4.4074	1.6862	0.0229	0.8079	0.0459	0.8538	0.2205	0.0439	0.2644		2,491.094 0	2,491.094 0	0.1030	0.3812	2,607.272 2

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****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	lb/day										lb/day						
Fugitive Dust					5.1249	0.0000	5.1249	2.6288	0.0000	2.6288			0.0000			0.0000	
Off-Road	0.2851	1.2353	12.3513	0.0233		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	2,257.4955	2,257.4955	0.7301		2,275.7485	
Total	0.2851	1.2353	12.3513	0.0233	5.1249	5.7000e-003	5.1306	2.6288	5.7000e-003	2.6345	0.0000	2,257.4955	2,257.4955	0.7301		2,275.7485	

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	lb/day										lb/day						
Hauling	0.0949	4.3865	1.3350	0.0219	0.6961	0.0454	0.7415	0.1909	0.0434	0.2343		2,391.1191	2,391.1191	0.1008	0.3790	2,506.5784	
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	0.0363	0.0210	0.3512	9.7000e-004	0.1118	5.3000e-004	0.1123	0.0296	4.9000e-004	0.0301		99.9750	99.9750	2.2100e-003	2.2300e-003	100.6938	
Total	0.1312	4.4074	1.6862	0.0229	0.8079	0.0459	0.8538	0.2205	0.0439	0.2644		2,491.0940	2,491.0940	0.1030	0.3812	2,607.2722	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****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	lb/day										lb/day					
Fugitive Dust					7.1185	0.0000	7.1185	3.4302	0.0000	3.4302			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	7.1185	0.7244	7.8430	3.4302	0.6665	4.0967		2,873.054 1	2,873.054 1	0.9292		2,896.284 2

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	lb/day										lb/day					
Hauling	0.0949	4.3876	1.3354	0.0220	0.6963	0.0454	0.7417	0.1909	0.0434	0.2343		2,391.720 6	2,391.720 6	0.1008	0.3791	2,507.209 0
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
Worker	0.0545	0.0314	0.5268	1.4500e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		149.9625	149.9625	3.3100e-003	3.3400e-003	151.0408
Total	0.1494	4.4190	1.8621	0.0234	0.8639	0.0462	0.9101	0.2354	0.0442	0.2795		2,541.683 1	2,541.683 1	0.1042	0.3824	2,658.249 7

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****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	lb/day										lb/day						
Fugitive Dust					2.7762	0.0000	2.7762	1.3378	0.0000	1.3378			0.0000			0.0000	
Off-Road	0.3632	1.5737	17.7527	0.0297		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842	
Total	0.3632	1.5737	17.7527	0.0297	2.7762	7.2600e-003	2.7835	1.3378	7.2600e-003	1.3450	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842	

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	lb/day										lb/day						
Hauling	0.0949	4.3876	1.3354	0.0220	0.6963	0.0454	0.7417	0.1909	0.0434	0.2343		2,391.7206	2,391.7206	0.1008	0.3791	2,507.2090	
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	0.0545	0.0314	0.5268	1.4500e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		149.9625	149.9625	3.3100e-003	3.3400e-003	151.0408	
Total	0.1494	4.4190	1.8621	0.0234	0.8639	0.0462	0.9101	0.2354	0.0442	0.2795		2,541.6831	2,541.6831	0.1042	0.3824	2,658.2497	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****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	lb/day										lb/day						
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698	2,555.698	0.6044			2,570.807	
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698	2,555.698	0.6044			2,570.807	

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	lb/day										lb/day						
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	0.0137	0.4247	0.1737	2.1200e-003	0.0769	3.1100e-003	0.0800	0.0221	2.9800e-003	0.0251	227.1293	227.1293	5.8400e-003	0.0335	237.2690		
Worker	0.1090	0.0628	1.0535	2.9100e-003	0.3353	1.5900e-003	0.3369	0.0889	1.4700e-003	0.0904	299.9249	299.9249	6.6200e-003	6.6800e-003	302.0815		
Total	0.1227	0.4875	1.2272	5.0300e-003	0.4122	4.7000e-003	0.4169	0.1111	4.4500e-003	0.1155		527.0542	527.0542	0.0125	0.0402	539.3505	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****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	lb/day															lb/day	
Off-Road	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077	
Total	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077	

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	lb/day															lb/day	
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	0.0137	0.4247	0.1737	2.1200e-003	0.0769	3.1100e-003	0.0800	0.0221	2.9800e-003	0.0251		227.1293	227.1293	5.8400e-003	0.0335	237.2690	
Worker	0.1090	0.0628	1.0535	2.9100e-003	0.3353	1.5900e-003	0.3369	0.0889	1.4700e-003	0.0904		299.9249	299.9249	6.6200e-003	6.6800e-003	302.0815	
Total	0.1227	0.4875	1.2272	5.0300e-003	0.4122	4.7000e-003	0.4169	0.1111	4.4500e-003	0.1155		527.0542	527.0542	0.0125	0.0402	539.3505	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010			2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010			2,571.498 1

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	lb/day										lb/day					
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	0.0135	0.4221	0.1710	2.0800e-003	0.0769	3.1100e-003	0.0800	0.0221	2.9800e-003	0.0251	222.7135	222.7135	5.6700e-003	0.0329		232.6493
Worker	0.1014	0.0561	0.9780	2.8100e-003	0.3353	1.5100e-003	0.3368	0.0889	1.3900e-003	0.0903	292.5189	292.5189	5.9500e-003	6.2200e-003		294.5210
Total	0.1149	0.4782	1.1489	4.8900e-003	0.4122	4.6200e-003	0.4168	0.1111	4.3700e-003	0.1154	515.2324	515.2324	0.0116	0.0391		527.1703

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****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	lb/day										lb/day						
Off-Road	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,556.474	2,556.474	0.6010		2,571.498	
Total	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,556.474	2,556.474	0.6010		2,571.498	

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	lb/day										lb/day						
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	0.0135	0.4221	0.1710	2.0800e-003	0.0769	3.1100e-003	0.0800	0.0221	2.9800e-003	0.0251	222.7135	222.7135	5.6700e-003	0.0329	232.6493		
Worker	0.1014	0.0561	0.9780	2.8100e-003	0.3353	1.5100e-003	0.3368	0.0889	1.3900e-003	0.0903	292.5189	292.5189	5.9500e-003	6.2200e-003	294.5210		
Total	0.1149	0.4782	1.1489	4.8900e-003	0.4122	4.6200e-003	0.4168	0.1111	4.3700e-003	0.1154		515.2324	515.2324	0.0116	0.0391	527.1703	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2024****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	lb/day										lb/day						
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	1,805.620 5	1,805.620 5	0.5673			1,819.803 9	
Paving	0.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.0691	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.620 5	1,805.620 5	0.5673			1,819.803 9

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	lb/day										lb/day					
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	0.0727	0.0419	0.7024	1.9400e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603	199.9500	199.9500	4.4200e-003	4.4500e-003		201.3877
Total	0.0727	0.0419	0.7024	1.9400e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603		199.9500	199.9500	4.4200e-003	4.4500e-003	201.3877

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2024****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	lb/day										lb/day						
Off-Road	0.2194	0.9509	13.5323	0.0189			4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.1878						0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4072	0.9509	13.5323	0.0189			4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039

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	lb/day										lb/day						
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	0.0727	0.0419	0.7024	1.9400e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603		199.9500	199.9500	4.4200e-003	4.4500e-003	201.3877	
Total	0.0727	0.0419	0.7024	1.9400e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603		199.9500	199.9500	4.4200e-003	4.4500e-003	201.3877	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****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	lb/day										lb/day						
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	1,805.392 6	1,805.392 6	0.5673			1,819.574 1	
Paving	0.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.0075	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.392 6	1,805.392 6	0.5673			1,819.574 1

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	lb/day										lb/day					
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	0.0676	0.0374	0.6520	1.8700e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602		195.0126	195.0126	3.9700e-003	4.1500e-003	196.3473
Total	0.0676	0.0374	0.6520	1.8700e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602		195.0126	195.0126	3.9700e-003	4.1500e-003	196.3473

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

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	lb/day										lb/day						
Off-Road	0.2194	0.9509	13.5323	0.0189		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741	
Paving	0.1878					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	
Total	0.4072	0.9509	13.5323	0.0189		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741	

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	lb/day										lb/day						
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	0.0676	0.0374	0.6520	1.8700e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	195.0126	195.0126	3.9700e-003	4.1500e-003	196.3473		
Total	0.0676	0.0374	0.6520	1.8700e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	195.0126	195.0126	3.9700e-003	4.1500e-003	196.3473		

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	lb/day										lb/day						
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	281.4481	281.4481	0.0159			281.8443	
Total	10.7040	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	281.4481	281.4481	0.0159			281.8443	

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	lb/day										lb/day						
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	0.0218	0.0126	0.2107	5.8000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	59.9850	59.9850	1.3200e-003	1.3400e-003	60.4163		
Total	0.0218	0.0126	0.2107	5.8000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	59.9850	59.9850	1.3200e-003	1.3400e-003	60.4163		

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****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	lb/day										lb/day						
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0159		281.8443	
Total	10.5530	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0159		281.8443	

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	lb/day										lb/day						
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	0.0218	0.0126	0.2107	5.8000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	59.9850	59.9850	1.3200e-003	1.3400e-003	60.4163		
Total	0.0218	0.0126	0.2107	5.8000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	59.9850	59.9850	1.3200e-003	1.3400e-003	60.4163		

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

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	lb/day										lb/day					
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	10.6941	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	lb/day										lb/day						
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	0.0203	0.0112	0.1956	5.6000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	58.5038	58.5038	1.1900e-003	1.2400e-003	58.9042		
Total	0.0203	0.0112	0.1956	5.6000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	58.5038	58.5038	1.1900e-003	1.2400e-003	58.9042		

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****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	lb/day										lb/day					
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.5530	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0154		281.8319

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	lb/day										lb/day					
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	0.0203	0.0112	0.1956	5.6000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	58.5038	58.5038	1.1900e-003	1.2400e-003	58.9042	
Total	0.0203	0.0112	0.1956	5.6000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	58.5038	58.5038	1.1900e-003	1.2400e-003	58.9042	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****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	lb/day											lb/day					
Mitigated	0.2719	0.3312	2.5353	5.6600e-003	0.5856	4.2700e-003	0.5899	0.1562	4.0000e-003	0.1602	590.8353	590.8353	0.0303	0.0267	599.5469		
Unmitigated	0.2719	0.3312	2.5353	5.6600e-003	0.5856	4.2700e-003	0.5899	0.1562	4.0000e-003	0.1602	590.8353	590.8353	0.0303	0.0267	599.5469		

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Government (Civic Center)	89.81	89.81	89.81	277,353	277,353	277,353	277,353
Parking Lot	0.00	0.00	0.00				
Total	89.81	89.81	89.81	277,353	277,353	277,353	277,353

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
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Parking Lot	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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	lb/day										lb/day					
NaturalGas Mitigated	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003		20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
NaturalGas Unmitigated	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003		20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Government (Civic Center)	176.199	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
Parking Lot	0	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	
Total		1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

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	lb/day										lb/day					
Government (Civic Center)	0.176199	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
Parking Lot	0	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	
Total		1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

6.0 Area Detail

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.1 Mitigation Measures Area**

	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	lb/day												lb/day				
Mitigated	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Unmitigated	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	

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	lb/day												lb/day				
Architectural Coating	0.0000						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Consumer Products	0.3911						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Landscaping	7.0000e-004	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Total	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Architectural Coating	0.0000						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	0.3911						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	7.0000e-004	7.0000e-005	7.6200e-003	0.0000			3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0164	0.0164	4.0000e-005	0.0175
Total	0.3918	7.0000e-005	7.6200e-003	0.0000			3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0164	0.0164	4.0000e-005	0.0175

7.0 Water Detail**7.1 Mitigation Measures Water**

Chino Fire Department - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Chino Fire Department
San Bernardino-South Coast County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	18.75	1000sqft	2.45	18,750.00	0
Parking Lot	56.12	1000sqft	1.29	56,120.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 3.74 acre site... updated to add 600 sf per email

Construction Phase - cs

Off-road Equipment - cs

Trips and VMT - Updated to reflect Project Export

Grading -

Vehicle Trips - Updated to reflect TS

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4 equipment PDF

Architectural Coating -

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	8.00	25.00
tblGrading	MaterialExported	0.00	7,948.00
tblGrading	MaterialExported	0.00	6,359.00
tblLandUse	LotAcreage	0.43	2.45
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblVehicleTrips	ST_TR	0.00	4.79

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	0.00	4.79
tblVehicleTrips	WD_TR	33.98	4.79

2.0 Emissions Summary

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****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	lb/day										lb/day						
2024	13.4539	23.5074	31.9974	0.0559	13.9485	1.0790	14.7697	6.9609	1.0120	7.7181	0.0000	5,404.302 1	5,404.302 1	1.2057	0.3831	5,544.293 2	
2025	13.2647	21.7031	31.7540	0.0557	0.7028	0.9374	1.6402	0.1882	0.8793	1.0674	0.0000	5,361.498 9	5,361.498 9	1.2004	0.0450	5,404.900 8	
Maximum	13.4539	23.5074	31.9974	0.0559	13.9485	1.0790	14.7697	6.9609	1.0120	7.7181	0.0000	5,404.302 1	5,404.302 1	1.2057	0.3831	5,544.293 2	

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	lb/day										lb/day						
2024	11.4972	6.2318	34.6245	0.0559	5.9327	0.0535	5.9844	2.8493	0.0515	2.8990	0.0000	5,404.302 1	5,404.302 1	1.2057	0.3831	5,544.293 2	
2025	11.4837	3.8703	34.5074	0.0557	0.7028	0.0171	0.7199	0.1882	0.0167	0.2048	0.0000	5,361.498 9	5,361.498 9	1.2004	0.0450	5,404.900 8	
Maximum	11.4972	6.2318	34.6245	0.0559	5.9327	0.0535	5.9844	2.8493	0.0515	2.8990	0.0000	5,404.302 1	5,404.302 1	1.2057	0.3831	5,544.293 2	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	13.99	77.66	-8.44	0.00	54.71	96.50	59.15	57.51	96.40	64.67	0.00	0.00	0.00	0.00	0.00	0.00

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day											lb/day					
Area	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Energy	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004		20.8524	
Mobile	0.2355	0.3520	2.2786	5.2500e-003	0.5856	4.2800e-003	0.5899	0.1562	4.0000e-003	0.1602	548.4145	548.4145	0.0312	0.0274		557.3434	
Total	0.6292	0.3693	2.3007	5.3500e-003	0.5856	5.6200e-003	0.5912	0.1562	5.3400e-003	0.1615	569.1601	569.1601	0.0316	0.0277	578.2133		

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	lb/day											lb/day					
Area	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Energy	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004		20.8524	
Mobile	0.2355	0.3520	2.2786	5.2500e-003	0.5856	4.2800e-003	0.5899	0.1562	4.0000e-003	0.1602	548.4145	548.4145	0.0312	0.0274		557.3434	
Total	0.6292	0.3693	2.3007	5.3500e-003	0.5856	5.6200e-003	0.5912	0.1562	5.3400e-003	0.1615	569.1601	569.1601	0.0316	0.0277	578.2133		

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	N20	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	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/27/2024	3/1/2024	5	25	
3	Building Construction	Building Construction	3/2/2024	1/17/2025	5	230	
4	Paving	Paving	12/25/2024	1/17/2025	5	18	
5	Architectural Coating	Architectural Coating	12/25/2024	1/17/2025	5	18	

Acres of Grading (Site Preparation Phase): 20

Acres of Grading (Grading Phase): 25

Acres of Paving: 1.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 28,125; Non-Residential Outdoor: 9,375; Striped Parking Area: 3,367 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	4	10.00	0.00	795.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	994.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****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	lb/day										lb/day					
Fugitive Dust					13.1406	0.0000	13.1406	6.7404	0.0000	6.7404			0.0000			0.0000
Off-Road	1.6780	17.1518	10.7334	0.0233		0.7753	0.7753		0.7132	0.7132		2,257.495 5	2,257.495 5	0.7301		2,275.748 5
Total	1.6780	17.1518	10.7334	0.0233	13.1406	0.7753	13.9159	6.7404	0.7132	7.4537		2,257.495 5	2,257.495 5	0.7301		2,275.748 5

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	lb/day										lb/day					
Hauling	0.0877	4.6239	1.3590	0.0220	0.6961	0.0455	0.7415	0.1909	0.0435	0.2344		2,394.753 8	2,394.753 8	0.1005	0.3796	2,510.375 5
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
Worker	0.0351	0.0220	0.2894	8.8000e-004	0.1118	5.3000e-004	0.1123	0.0296	4.9000e-004	0.0301		90.5945	90.5945	2.2100e-003	2.3000e-003	91.3347
Total	0.1228	4.6459	1.6483	0.0229	0.8079	0.0460	0.8539	0.2205	0.0440	0.2645		2,485.348 3	2,485.348 3	0.1027	0.3819	2,601.710 1

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****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	lb/day										lb/day						
Fugitive Dust					5.1249	0.0000	5.1249	2.6288	0.0000	2.6288			0.0000			0.0000	
Off-Road	0.2851	1.2353	12.3513	0.0233		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	2,257.4955	2,257.4955	0.7301		2,275.7485	
Total	0.2851	1.2353	12.3513	0.0233	5.1249	5.7000e-003	5.1306	2.6288	5.7000e-003	2.6345	0.0000	2,257.4955	2,257.4955	0.7301		2,275.7485	

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	lb/day										lb/day						
Hauling	0.0877	4.6239	1.3590	0.0220	0.6961	0.0455	0.7415	0.1909	0.0435	0.2344		2,394.7538	2,394.7538	0.1005	0.3796	2,510.3755	
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	0.0351	0.0220	0.2894	8.8000e-004	0.1118	5.3000e-004	0.1123	0.0296	4.9000e-004	0.0301		90.5945	90.5945	2.2100e-003	2.3000e-003	91.3347	
Total	0.1228	4.6459	1.6483	0.0229	0.8079	0.0460	0.8539	0.2205	0.0440	0.2645		2,485.3483	2,485.3483	0.1027	0.3819	2,601.7101	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****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	lb/day										lb/day					
Fugitive Dust					7.1185	0.0000	7.1185	3.4302	0.0000	3.4302			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	7.1185	0.7244	7.8430	3.4302	0.6665	4.0967		2,873.054 1	2,873.054 1	0.9292		2,896.284 2

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	lb/day										lb/day					
Hauling	0.0877	4.6251	1.3593	0.0220	0.6963	0.0455	0.7417	0.1909	0.0435	0.2344		2,395.356 3	2,395.356 3	0.1005	0.3797	2,511.007 0
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
Worker	0.0526	0.0330	0.4340	1.3200e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		135.8918	135.8918	3.3200e-003	3.4500e-003	137.0020
Total	0.1404	4.6581	1.7933	0.0233	0.8639	0.0463	0.9102	0.2354	0.0442	0.2796		2,531.248 0	2,531.248 0	0.1038	0.3831	2,648.009 0

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****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	lb/day										lb/day						
Fugitive Dust					2.7762	0.0000	2.7762	1.3378	0.0000	1.3378			0.0000			0.0000	
Off-Road	0.3632	1.5737	17.7527	0.0297		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842	
Total	0.3632	1.5737	17.7527	0.0297	2.7762	7.2600e-003	2.7835	1.3378	7.2600e-003	1.3450	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842	

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	lb/day										lb/day						
Hauling	0.0877	4.6251	1.3593	0.0220	0.6963	0.0455	0.7417	0.1909	0.0435	0.2344		2,395.3563	2,395.3563	0.1005	0.3797	2,511.0070	
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	0.0526	0.0330	0.4340	1.3200e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		135.8918	135.8918	3.3200e-003	3.4500e-003	137.0020	
Total	0.1404	4.6581	1.7933	0.0233	0.8639	0.0463	0.9102	0.2354	0.0442	0.2796		2,531.2480	2,531.2480	0.1038	0.3831	2,648.0090	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****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	lb/day															lb/day	
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698	2,555.698	0.6044		2,570.807	
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698	2,555.698	0.6044		2,570.807	
												9	9			7	

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	lb/day															lb/day	
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	0.0127	0.4485	0.1791	2.1200e-003	0.0769	3.1300e-003	0.0800	0.0221	2.9900e-003	0.0251		227.6844	227.6844	5.7900e-003	0.0336	237.8537	
Worker	0.1052	0.0661	0.8681	2.6300e-003	0.3353	1.5900e-003	0.3369	0.0889	1.4700e-003	0.0904		271.7836	271.7836	6.6400e-003	6.8900e-003	274.0040	
Total	0.1180	0.5145	1.0472	4.7500e-003	0.4122	4.7200e-003	0.4169	0.1111	4.4600e-003	0.1155		499.4679	499.4679	0.0124	0.0405	511.8577	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****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	lb/day										lb/day						
Off-Road	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077	
Total	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077	

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	lb/day										lb/day						
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	0.0127	0.4485	0.1791	2.1200e-003	0.0769	3.1300e-003	0.0800	0.0221	2.9900e-003	0.0251		227.6844	227.6844	5.7900e-003	0.0336	237.8537	
Worker	0.1052	0.0661	0.8681	2.6300e-003	0.3353	1.5900e-003	0.3369	0.0889	1.4700e-003	0.0904		271.7836	271.7836	6.6400e-003	6.8900e-003	274.0040	
Total	0.1180	0.5145	1.0472	4.7500e-003	0.4122	4.7200e-003	0.4169	0.1111	4.4600e-003	0.1155		499.4679	499.4679	0.0124	0.0405	511.8577	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010			2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010			2,571.498 1

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	lb/day										lb/day					
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	0.0125	0.4458	0.1763	2.0800e-003	0.0769	3.1200e-003	0.0800	0.0221	2.9900e-003	0.0251	223.2631	223.2631	5.6200e-003	0.0330		233.2278
Worker	0.0982	0.0589	0.8069	2.5400e-003	0.3353	1.5100e-003	0.3368	0.0889	1.3900e-003	0.0903	265.1362	265.1362	5.9900e-003	6.4200e-003		267.1977
Total	0.1107	0.5048	0.9832	4.6200e-003	0.4122	4.6300e-003	0.4168	0.1111	4.3800e-003	0.1154	488.3992	488.3992	0.0116	0.0394	500.4255	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****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	lb/day										lb/day						
Off-Road	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,556.474	2,556.474	0.6010		2,571.498	
Total	0.3278	2.2347	17.4603	0.0270		6.1200e-003	6.1200e-003		6.1200e-003	6.1200e-003	0.0000	2,556.474	2,556.474	0.6010		2,571.498	

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	lb/day										lb/day						
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	0.0125	0.4458	0.1763	2.0800e-003	0.0769	3.1200e-003	0.0800	0.0221	2.9900e-003	0.0251	223.2631	223.2631	5.6200e-003	0.0330	233.2278		
Worker	0.0982	0.0589	0.8069	2.5400e-003	0.3353	1.5100e-003	0.3368	0.0889	1.3900e-003	0.0903	265.1362	265.1362	5.9900e-003	6.4200e-003	267.1977		
Total	0.1107	0.5048	0.9832	4.6200e-003	0.4122	4.6300e-003	0.4168	0.1111	4.3800e-003	0.1154	488.3992	488.3992	0.0116	0.0394	500.4255		

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2024****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	lb/day										lb/day						
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	1,805.620 5	1,805.620 5	0.5673			1,819.803 9	
Paving	0.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.0691	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.620 5	1,805.620 5	0.5673			1,819.803 9

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	lb/day										lb/day					
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	0.0702	0.0440	0.5787	1.7600e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603	181.1891	181.1891	4.4300e-003	4.6000e-003		182.6693
Total	0.0702	0.0440	0.5787	1.7600e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603		181.1891	181.1891	4.4300e-003	4.6000e-003	182.6693

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2024****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	lb/day										lb/day						
Off-Road	0.2194	0.9509	13.5323	0.0189			4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.1878						0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4072	0.9509	13.5323	0.0189			4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039

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	lb/day										lb/day						
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
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
Worker	0.0702	0.0440	0.5787	1.7600e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603			181.1891	181.1891	4.4300e-003	4.6000e-003	182.6693
Total	0.0702	0.0440	0.5787	1.7600e-003	0.2236	1.0600e-003	0.2246	0.0593	9.8000e-004	0.0603			181.1891	181.1891	4.4300e-003	4.6000e-003	182.6693

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****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	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	1,805.392 6	1,805.392 6	0.5673			1,819.574 1
Paving	0.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0075	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	1,805.392 6	1,805.392 6	0.5673			1,819.574 1

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	lb/day										lb/day					
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	0.0655	0.0393	0.5379	1.7000e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	176.7574	176.7574	3.9900e-003	4.2800e-003		178.1318
Total	0.0655	0.0393	0.5379	1.7000e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	176.7574	176.7574	3.9900e-003	4.2800e-003		178.1318

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

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	lb/day										lb/day						
Off-Road	0.2194	0.9509	13.5323	0.0189	4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.392	1,805.392	0.5673			1,819.574	
Paving	0.1878				0.0000	0.0000		0.0000	0.0000		0.0000		0.0000			0.0000	
Total	0.4072	0.9509	13.5323	0.0189	4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	1,805.392	1,805.392	0.5673			1,819.574	

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	lb/day										lb/day						
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	0.0655	0.0393	0.5379	1.7000e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	176.7574	176.7574	3.9900e-003	4.2800e-003	178.1318		
Total	0.0655	0.0393	0.5379	1.7000e-003	0.2236	1.0100e-003	0.2246	0.0593	9.3000e-004	0.0602	176.7574	176.7574	3.9900e-003	4.2800e-003	178.1318		

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	lb/day										lb/day					
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	281.4481	281.4481	0.0159			281.8443
Total	10.7040	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	281.4481	281.4481	0.0159			281.8443

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	lb/day										lb/day						
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	0.0211	0.0132	0.1736	5.3000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	54.3567	54.3567	1.3300e-003	1.3800e-003	54.8008		
Total	0.0211	0.0132	0.1736	5.3000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	54.3567	54.3567	1.3300e-003	1.3800e-003	54.8008		

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****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	lb/day										lb/day					
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0159		281.8443
Total	10.5530	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0159		281.8443

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	lb/day										lb/day					
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	0.0211	0.0132	0.1736	5.3000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	54.3567	54.3567	1.3300e-003	1.3800e-003	54.8008	
Total	0.0211	0.0132	0.1736	5.3000e-004	0.0671	3.2000e-004	0.0674	0.0178	2.9000e-004	0.0181	54.3567	54.3567	1.3300e-003	1.3800e-003	54.8008	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****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	lb/day										lb/day						
Archit. Coating	10.5233						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1709	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	10.6941	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	lb/day										lb/day						
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	
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	
Worker	0.0196	0.0118	0.1614	5.1000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181			53.0272	53.0272	1.2000e-003	1.2800e-003	53.4395
Total	0.0196	0.0118	0.1614	5.1000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181			53.0272	53.0272	1.2000e-003	1.2800e-003	53.4395

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****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	lb/day										lb/day					
Archit. Coating	10.5233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.5530	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0154		281.8319

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	lb/day										lb/day					
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	0.0196	0.0118	0.1614	5.1000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	53.0272	53.0272	1.2000e-003	1.2800e-003	53.4395	
Total	0.0196	0.0118	0.1614	5.1000e-004	0.0671	3.0000e-004	0.0674	0.0178	2.8000e-004	0.0181	53.0272	53.0272	1.2000e-003	1.2800e-003	53.4395	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****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	lb/day											lb/day					
Mitigated	0.2355	0.3520	2.2786	5.2500e-003	0.5856	4.2800e-003	0.5899	0.1562	4.0000e-003	0.1602	548.4145	548.4145	0.0312	0.0274	557.3434		
Unmitigated	0.2355	0.3520	2.2786	5.2500e-003	0.5856	4.2800e-003	0.5899	0.1562	4.0000e-003	0.1602	548.4145	548.4145	0.0312	0.0274	557.3434		

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Government (Civic Center)	89.81	89.81	89.81	277,353	277,353	277,353	277,353
Parking Lot	0.00	0.00	0.00				
Total	89.81	89.81	89.81	277,353	277,353	277,353	277,353

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
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Parking Lot	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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	lb/day										lb/day					
NaturalGas Mitigated	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003		20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
NaturalGas Unmitigated	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003		20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Government (Civic Center)	176.199	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
Parking Lot	0	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	
Total		1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

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	lb/day										lb/day					
Government (Civic Center)	0.176199	1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	
Parking Lot	0	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	
Total		1.9000e-003	0.0173	0.0145	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	20.7293	20.7293	4.0000e-004	3.8000e-004	20.8524	

6.0 Area Detail

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.1 Mitigation Measures Area**

	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	lb/day												lb/day				
Mitigated	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Unmitigated	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	

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	lb/day												lb/day				
Architectural Coating	0.0000						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Consumer Products	0.3911						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Landscaping	7.0000e-004	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	
Total	0.3918	7.0000e-005	7.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0164	0.0164	4.0000e-005			0.0175	

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Architectural Coating	0.0000						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	0.3911						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	7.0000e-004	7.0000e-005	7.6200e-003	0.0000			3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0164	0.0164	4.0000e-005	0.0175
Total	0.3918	7.0000e-005	7.6200e-003	0.0000			3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0164	0.0164	4.0000e-005	0.0175

7.0 Water Detail**7.1 Mitigation Measures Water**

Chino Fire Department - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

ATTACHMENT B

AERMOD Dispersion Model (DPM Fire Truck Operations)

1

AERMOD PRIME - (DATED 19191)

AERMODPrMSPx VERSION
(C) COPYRIGHT 1998-2017, Trinity Consultants

Run Began on 7/20/2023 at 7:12:33

** BREEZE AERMOD
** Trinity Consultants
** VERSION 10.0

CO STARTING
CO TITLEONE Latitude PM10 Construction
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME ANNUAL
CO POLLUTID PM10
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION TVY2T000 POINT 434037.3 3757757.5 0
** SRCDESCR T1
SO LOCATION TVY2T001 POINT 434023.9 3757740.7 0
** SRCDESCR T2
SO LOCATION TVY2T003 POINT 434033.2 3757753.1 0
** SRCDESCR T3
SO LOCATION TVY2T004 POINT 434028.4 3757746.8 0
** SRCDESCR T4
SO LOCATION TVY2T005 POINT 433953.3 3757789.6 0
** SRCDESCR T5
SO LOCATION TVY2T006 POINT 433958.1 3757788.1 0
** SRCDESCR T6
SO LOCATION TVY2T007 POINT 433962.9 3757787.5 0
** SRCDESCR T7
SO LOCATION TVY2T00I VOLUME 434015.8 3757741.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00J VOLUME 434010.9 3757742.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00K VOLUME 434006.0 3757743.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00L VOLUME 434001.1 3757744.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00M VOLUME 433996.2 3757745.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00N VOLUME 433991.3 3757746.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00O VOLUME 433991.3 3757751.1 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00P VOLUME 433992.2 3757756.1 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00Q VOLUME 433993.1 3757761.0 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00R VOLUME 433994.1 3757765.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00S VOLUME 433995.0 3757770.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00T VOLUME 433995.9 3757775.7 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00U VOLUME 433996.9 3757780.6 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00V VOLUME 433997.8 3757785.5 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00W VOLUME 433992.9 3757786.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00X VOLUME 433988.0 3757787.3 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T00Y VOLUME 433983.1 3757788.1 0
** SRCDESCR Fire Truck Modeling Path worst-case

SO LOCATION TVY2T00Z VOLUME 433978.1 3757788.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T010 VOLUME 433973.2 3757789.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T011 VOLUME 433968.3 3757790.6 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T012 VOLUME 433963.4 3757791.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T013 VOLUME 433961.0 3757793.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T014 VOLUME 433962.2 3757798.8 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T015 VOLUME 433963.4 3757803.6 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T016 VOLUME 433964.6 3757808.5 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T017 VOLUME 433968.6 3757808.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T018 VOLUME 433973.4 3757806.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T019 VOLUME 433978.1 3757805.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T01A VOLUME 433982.9 3757803.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T01B VOLUME 433987.7 3757802.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T01C VOLUME 433992.4 3757800.9 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T01D VOLUME 433997.2 3757799.4 0
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SO LOCATION TVY2T01H VOLUME 434016.3 3757793.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T01I VOLUME 434021.0 3757791.9 0
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SO LOCATION TVY2T01S VOLUME 434068.6 3757776.5 0
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SO LOCATION TVY2T01U VOLUME 434077.7 3757772.5 0
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SO LOCATION TVY2T01V VOLUME 434082.3 3757770.4 0
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SO LOCATION TVY2T01X VOLUME 434091.5 3757766.4 0

** SRCDESCR Fire Truck Modeling Path worst-case
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SO LOCATION TVY2T02J VOLUME 434190.8 3757719.4 0
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SO LOCATION TVY2T02O VOLUME 434212.8 3757707.4 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T02P VOLUME 434217.1 3757705.0 0
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SO LOCATION TVY2T02Q VOLUME 434221.5 3757702.6 0
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SO LOCATION TVY2T02T VOLUME 434234.7 3757695.4 0
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SO LOCATION TVY2T02V VOLUME 434243.5 3757690.6 0
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SO LOCATION TVY2T02W VOLUME 434247.9 3757688.2 0
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SO LOCATION TVY2T02Y VOLUME 434256.6 3757683.4 0
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SO LOCATION TVY2T047 VOLUME 434082.4 3757790.2 0
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SO LOCATION TVY2T048 VOLUME 434077.9 3757792.2 0
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SO LOCATION TVY2T049 VOLUME 434073.3 3757794.3 0
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SO LOCATION TVY2T04E VOLUME 434049.6 3757801.9 0
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SO LOCATION TVY2T04Q VOLUME 433991.5 3757816.7 0
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SO LOCATION TVY2T04S VOLUME 433981.8 3757819.2 0
** SRCDESCR Fire Truck Modeling Path worst-case

SO LOCATION TVY2T04T VOLUME 433976.9 3757820.4 0
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** SRCDESCR Fire Truck Modeling Path worst-case
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SO LOCATION TVY2T05I VOLUME 433986.4 3757750.7 0
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SO LOCATION TVY2T05O VOLUME 434007.9 3757739.3 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T05P VOLUME 434012.8 3757738.3 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO LOCATION TVY2T05Q VOLUME 434017.7 3757737.3 0
** SRCDESCR Fire Truck Modeling Path worst-case
SO SRCPARAM TVY2T000 3.3715E-08 3 325 .001 0.1

SO	BUILDLLEN	TVY2T000	34.76	34.67	33.52	0.00	0.00	0.00
SO	BUILDLLEN	TVY2T000	0.00	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T000	21.69	26.07	29.65	32.33	34.03	34.70
SO	BUILDLLEN	TVY2T000	34.76	34.67	33.52	0.00	0.00	0.00
SO	BUILDLLEN	TVY2T000	0.00	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T000	21.69	26.07	29.65	32.33	34.03	34.70
SO	XBADJ	TVY2T000	-34.48	-32.21	-28.97	0.00	0.00	0.00
SO	XBADJ	TVY2T000	0.00	-15.61	-11.90	-7.83	-3.52	0.89
SO	XBADJ	TVY2T000	4.24	3.79	3.22	2.55	1.80	1.00
SO	XBADJ	TVY2T000	-0.28	-2.46	-4.55	0.00	0.00	0.00
SO	XBADJ	TVY2T000	0.00	-20.69	-22.70	-24.02	-24.61	-24.46
SO	XBADJ	TVY2T000	-25.94	-29.85	-32.87	-34.88	-35.83	-35.70
SO	YBADJ	TVY2T000	-8.10	-10.55	-12.68	0.00	0.00	0.00
SO	YBADJ	TVY2T000	0.00	-18.82	-18.35	-17.10	-14.88	-12.21
SO	YBADJ	TVY2T000	-8.80	-6.15	-3.32	-0.40	2.54	5.40
SO	YBADJ	TVY2T000	8.10	10.55	12.68	0.00	0.00	0.00
SO	YBADJ	TVY2T000	0.00	18.82	18.35	17.10	14.88	12.21
SO	YBADJ	TVY2T000	8.80	6.15	3.32	0.40	-2.54	-5.40
SO	BUILDHGT	TVY2T001	0.00	0.00	0.00	0.00	4.00	4.00
SO	BUILDHGT	TVY2T001	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T001	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T001	0.00	0.00	0.00	0.00	4.00	4.00
SO	BUILDHGT	TVY2T001	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T001	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDWID	TVY2T001	0.00	0.00	0.00	0.00	26.07	29.65
SO	BUILDWID	TVY2T001	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T001	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDWID	TVY2T001	0.00	0.00	0.00	0.00	26.07	29.65
SO	BUILDWID	TVY2T001	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T001	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDLLEN	TVY2T001	0.00	0.00	0.00	0.00	34.73	36.36
SO	BUILDLLEN	TVY2T001	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T001	21.69	26.07	29.65	32.33	34.03	34.70
SO	BUILDLLEN	TVY2T001	0.00	0.00	0.00	0.00	34.73	36.36
SO	BUILDLLEN	TVY2T001	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T001	21.69	26.07	29.65	32.33	34.03	34.70
SO	BUILDLLEN	TVY2T001	0.00	0.00	0.00	0.00	34.73	36.36
SO	BUILDLLEN	TVY2T001	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T001	21.69	26.07	29.65	32.33	34.03	34.70
SO	XBADJ	TVY2T001	0.00	0.00	0.00	0.00	-2.45	-1.50
SO	XBADJ	TVY2T001	-0.51	0.50	1.50	2.45	3.32	4.10
SO	XBADJ	TVY2T001	3.71	-0.47	-4.63	-8.66	-12.42	-15.80
SO	XBADJ	TVY2T001	0.00	0.00	0.00	0.00	-32.28	-34.86
SO	XBADJ	TVY2T001	-36.39	-36.80	-36.10	-34.30	-31.46	-27.66
SO	XBADJ	TVY2T001	-25.40	-25.60	-25.02	-23.68	-21.62	-18.90
SO	YBADJ	TVY2T001	0.00	0.00	0.00	0.00	-12.56	-10.19
SO	YBADJ	TVY2T001	-7.51	-4.60	-1.55	1.77	5.49	9.04
SO	YBADJ	TVY2T001	12.68	14.92	16.68	17.94	18.65	18.80
SO	YBADJ	TVY2T001	0.00	0.00	0.00	0.00	12.56	10.19
SO	YBADJ	TVY2T001	7.51	4.60	1.55	-1.77	-5.49	-9.04
SO	YBADJ	TVY2T001	-12.68	-14.92	-16.68	-17.94	-18.65	-18.80
SO	BUILDHGT	TVY2T003	4.00	4.00	0.00	0.00	0.00	4.00
SO	BUILDHGT	TVY2T003	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T003	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T003	4.00	4.00	0.00	0.00	0.00	4.00
SO	BUILDHGT	TVY2T003	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T003	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDWID	TVY2T003	31.85	28.14	0.00	0.00	0.00	29.65
SO	BUILDWID	TVY2T003	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T003	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDWID	TVY2T003	31.85	28.14	0.00	0.00	0.00	29.65
SO	BUILDWID	TVY2T003	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T003	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDLLEN	TVY2T003	34.76	34.67	0.00	0.00	0.00	36.36
SO	BUILDLLEN	TVY2T003	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T003	21.69	26.07	29.65	32.33	34.03	34.70
SO	BUILDLLEN	TVY2T003	34.76	34.67	0.00	0.00	0.00	36.36
SO	BUILDLLEN	TVY2T003	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLLEN	TVY2T003	21.69	26.07	29.65	32.33	34.03	34.70
SO	XBADJ	TVY2T003	-29.44	-26.68	0.00	0.00	0.00	-15.76
SO	XBADJ	TVY2T003	-13.49	-10.81	-7.80	-4.56	-1.17	2.25
SO	XBADJ	TVY2T003	4.56	3.05	1.46	-0.19	-1.82	-3.40

SO	XBADJ	TVY2T003	-5.33	-7.99	0.00	0.00	0.00	-20.61
SO	XBADJ	TVY2T003	-23.41	-25.49	-26.80	-27.30	-26.96	-25.81
SO	XBADJ	TVY2T003	-26.25	-29.12	-31.11	-32.15	-32.21	-31.30
SO	YBADJ	TVY2T003	-11.37	-12.89	0.00	0.00	0.00	-16.28
SO	YBADJ	TVY2T003	-15.98	-15.20	-13.95	-12.05	-9.34	-6.35
SO	YBADJ	TVY2T003	-2.80	-0.18	2.43	4.96	7.34	9.50
SO	YBADJ	TVY2T003	11.37	12.89	0.00	0.00	0.00	16.28
SO	YBADJ	TVY2T003	15.98	15.20	13.95	12.05	9.34	6.35
SO	YBADJ	TVY2T003	2.80	0.18	-2.43	-4.96	-7.34	-9.50
SO	BUILDHGT	TVY2T004	4.00	4.00	0.00	0.00	4.00	4.00
SO	BUILDHGT	TVY2T004	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T004	4.00	4.00	0.00	0.00	4.00	4.00
SO	BUILDHGT	TVY2T004	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T004	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDWID	TVY2T004	31.85	28.14	0.00	0.00	26.07	29.65
SO	BUILDWID	TVY2T004	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T004	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDWID	TVY2T004	31.85	28.14	0.00	0.00	26.07	29.65
SO	BUILDWID	TVY2T004	32.33	34.03	34.70	34.76	34.67	33.52
SO	BUILDWID	TVY2T004	32.08	34.73	36.36	36.89	36.30	34.60
SO	BUILDLN	TVY2T004	34.76	34.67	0.00	0.00	34.73	36.36
SO	BUILDLN	TVY2T004	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLN	TVY2T004	21.69	26.07	29.65	32.33	34.03	34.70
SO	BUILDLN	TVY2T004	34.76	34.67	0.00	0.00	34.73	36.36
SO	BUILDLN	TVY2T004	36.89	36.30	34.60	31.85	28.14	23.56
SO	BUILDLN	TVY2T004	21.69	26.07	29.65	32.33	34.03	34.70
SO	XBADJ	TVY2T004	-22.40	-19.11	0.00	0.00	-9.82	-8.45
SO	XBADJ	TVY2T004	-6.82	-4.99	-3.00	-0.92	1.18	3.25
SO	XBADJ	TVY2T004	4.18	1.31	-1.60	-4.46	-7.19	-9.70
SO	XBADJ	TVY2T004	-12.37	-15.55	0.00	0.00	-24.91	-27.92
SO	XBADJ	TVY2T004	-30.07	-31.31	-31.60	-30.93	-29.32	-26.82
SO	XBADJ	TVY2T004	-25.88	-27.38	-28.05	-27.87	-26.84	-25.00
SO	YBADJ	TVY2T004	-15.00	-15.25	0.00	0.00	-14.35	-13.23
SO	YBADJ	TVY2T004	-11.70	-9.83	-7.65	-5.02	-1.78	1.51
SO	YBADJ	TVY2T004	5.12	7.55	9.73	11.62	13.16	14.30
SO	YBADJ	TVY2T004	15.00	15.25	0.00	0.00	14.35	13.23
SO	YBADJ	TVY2T004	11.70	9.83	7.65	5.02	1.78	-1.51
SO	YBADJ	TVY2T004	-5.12	-7.55	-9.73	-11.62	-13.16	-14.30
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	0.00	4.00	4.00
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDHGT	TVY2T005	4.00	4.00	4.00	4.00	4.00	4.00
SO	BUILDWID	TVY2T005	43.70	46.58	49.01	49.95	49.37	47.29
SO	BUILDWID	TVY2T005	43.78	41.19	41.90	0.00	47.68	53.20
SO	BUILDWID	TVY2T005	57.10	59.27	59.64	58.19	54.98	50.10
SO	BUILDWID	TVY2T005	43.70	46.58	49.01	49.95	49.37	47.29
SO	BUILDWID	TVY2T005	43.78	41.19	41.90	0.00	47.68	53.20
SO	BUILDWID	TVY2T005	57.10	59.27	59.64	58.19	54.98	50.10
SO	BUILDLN	TVY2T005	41.33	47.68	53.20	57.10	59.27	59.64
SO	BUILDLN	TVY2T005	58.19	54.98	50.10	0.00	46.58	49.01
SO	BUILDLN	TVY2T005	49.95	49.37	47.29	43.78	41.19	41.90
SO	BUILDLN	TVY2T005	41.33	47.68	53.20	57.10	59.27	59.64
SO	BUILDLN	TVY2T005	58.19	54.98	50.10	0.00	46.58	49.01
SO	BUILDLN	TVY2T005	49.95	49.37	47.29	43.78	41.19	41.90
SO	XBADJ	TVY2T005	-44.52	-46.75	-48.04	-47.87	-46.24	-43.21
SO	XBADJ	TVY2T005	-38.86	-33.34	-26.80	0.00	-18.39	-16.99
SO	XBADJ	TVY2T005	-15.07	-12.69	-9.92	-6.86	-3.58	-0.20
SO	XBADJ	TVY2T005	3.19	-0.92	-5.15	-9.23	-13.03	-16.43
SO	XBADJ	TVY2T005	-19.33	-21.64	-23.30	0.00	-28.19	-32.03
SO	XBADJ	TVY2T005	-34.88	-36.68	-37.37	-36.92	-37.61	-41.70
SO	YBADJ	TVY2T005	-2.40	-4.90	-7.52	-9.91	-12.00	-13.72
SO	YBADJ	TVY2T005	-15.03	-17.01	-20.75	0.00	-22.92	-21.44
SO	YBADJ	TVY2T005	-19.32	-16.61	-13.39	-9.77	-5.85	-1.75
SO	YBADJ	TVY2T005	2.40	4.90	7.52	9.91	12.00	13.72
SO	YBADJ	TVY2T005	15.03	17.01	20.75	0.00	22.92	21.44
SO	YBADJ	TVY2T005	19.32	16.61	13.39	9.77	5.85	1.75

SO BUILDHGT	TVY2T006	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T006	4.00	4.00	4.00	0.00	4.00	4.00
SO BUILDHGT	TVY2T006	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T006	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T006	4.00	4.00	4.00	0.00	4.00	4.00
SO BUILDHGT	TVY2T006	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDWID	TVY2T006	43.70	46.58	49.01	49.95	49.37	47.29
SO BUILDWID	TVY2T006	43.78	41.19	41.90	0.00	47.68	53.20
SO BUILDWID	TVY2T006	57.10	59.27	59.64	58.19	54.98	50.10
SO BUILDWID	TVY2T006	43.70	46.58	49.01	49.95	49.37	47.29
SO BUILDWID	TVY2T006	43.78	41.19	41.90	0.00	47.68	53.20
SO BUILDWID	TVY2T006	57.10	59.27	59.64	58.19	54.98	50.10
SO BUILDLEN	TVY2T006	41.33	47.68	53.20	57.10	59.27	59.64
SO BUILDLEN	TVY2T006	58.19	54.98	50.10	0.00	46.58	49.01
SO BUILDLEN	TVY2T006	49.95	49.37	47.29	43.78	41.19	41.90
SO XBADJ	TVY2T006	-43.88	-46.99	-49.14	-49.80	-48.95	-46.62
SO XBADJ	TVY2T006	-42.86	-37.81	-31.60	0.00	-23.42	-21.89
SO XBADJ	TVY2T006	-19.71	-16.92	-13.62	-9.91	-5.89	-1.70
SO XBADJ	TVY2T006	2.55	-0.69	-4.05	-7.30	-10.32	-13.02
SO XBADJ	TVY2T006	-15.33	-17.18	-18.50	0.00	-23.17	-27.12
SO XBADJ	TVY2T006	-30.24	-32.45	-33.67	-33.87	-35.30	-40.20
SO YBADJ	TVY2T006	2.59	0.12	-2.61	-5.27	-7.76	-10.02
SO YBADJ	TVY2T006	-11.98	-14.70	-19.25	0.00	-23.15	-22.54
SO YBADJ	TVY2T006	-21.25	-19.32	-16.80	-13.76	-10.31	-6.55
SO YBADJ	TVY2T006	-2.59	-0.12	2.61	5.27	7.76	10.02
SO YBADJ	TVY2T006	11.98	14.70	19.25	0.00	23.15	22.54
SO YBADJ	TVY2T006	21.25	19.32	16.80	13.76	10.31	6.55
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	0.00	4.00	4.00
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	0.00	4.00	4.00
SO BUILDHGT	TVY2T007	4.00	4.00	4.00	4.00	4.00	4.00
SO BUILDWID	TVY2T007	43.70	46.58	49.01	49.95	49.37	47.29
SO BUILDWID	TVY2T007	43.78	41.19	41.90	0.00	47.68	53.20
SO BUILDWID	TVY2T007	57.10	59.27	59.64	58.19	54.98	50.10
SO BUILDWID	TVY2T007	43.70	46.58	49.01	49.95	49.37	47.29
SO BUILDWID	TVY2T007	43.78	41.19	41.90	0.00	47.68	53.20
SO BUILDWID	TVY2T007	57.10	59.27	59.64	58.19	54.98	50.10
SO BUILDLEN	TVY2T007	41.33	47.68	53.20	57.10	59.27	59.64
SO BUILDLEN	TVY2T007	58.19	54.98	50.10	0.00	46.58	49.01
SO BUILDLEN	TVY2T007	49.95	49.37	47.29	43.78	41.19	41.90
SO BUILDLEN	TVY2T007	41.33	47.68	53.20	57.10	59.27	59.64
SO BUILDLEN	TVY2T007	58.19	54.98	50.10	0.00	46.58	49.01
SO BUILDLEN	TVY2T007	49.95	49.37	47.29	43.78	41.19	41.90
SO XBADJ	TVY2T007	-44.12	-48.06	-51.02	-52.43	-52.25	-50.47
SO XBADJ	TVY2T007	-47.17	-42.43	-36.40	0.00	-28.13	-26.35
SO XBADJ	TVY2T007	-23.77	-20.47	-16.54	-12.11	-7.32	-2.30
SO XBADJ	TVY2T007	2.79	0.39	-2.17	-4.67	-7.02	-9.16
SO XBADJ	TVY2T007	-11.03	-12.55	-13.70	0.00	-18.45	-22.66
SO XBADJ	TVY2T007	-26.18	-28.90	-30.75	-31.66	-33.88	-39.60
SO YBADJ	TVY2T007	7.42	4.84	1.85	-1.21	-4.22	-7.10
SO YBADJ	TVY2T007	-9.77	-13.28	-18.65	0.00	-24.23	-24.42
SO YBADJ	TVY2T007	-23.88	-22.61	-20.65	-18.07	-14.94	-11.35
SO YBADJ	TVY2T007	-7.42	-4.84	-1.85	1.21	4.22	7.10
SO YBADJ	TVY2T007	9.77	13.28	18.65	0.00	24.23	24.42
SO YBADJ	TVY2T007	23.88	22.61	20.65	18.07	14.94	11.35
SO SRCGROUP	ALL						
SO FTNTSHED							

```
RE STARTING
RE ELEVUNIT METERS
RE GRIDCART TVY2T05R STA
** GRDDESCR gridded receptors
RE GRIDCART TVY2T05R XYINC 433570.4 21 43.9 3758012.3 21 -34.7
RE GRIDCART TVY2T05R ELEV 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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ME STARTING
ME SURFFILE  "G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station
68\071823\AERMOD\ChinoAirportADJU\KCNO_V9_ADJU\KCNO_v9.SFC"
** SURFFILE  "G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station
68\071823\AERMOD\ChinoAirportADJU\KCNO_V9_ADJU\KCNO_v9.SFC"
ME PROFILE    "G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station
68\071823\AERMOD\ChinoAirportADJU\KCNO V9 ADJU\KCNO v9.PFL"
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** PROFILE "G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station
68\071823\AERMOD\ChinoAirportADJU\KCNO_V9_ADJU\KCNO_v9.PFL"
ME SURFDATA 3179 2012
ME UAIRDATA 3190 2012
ME PROFBASE 0 METERS
ME STARTEND 2016 1 1 1 2016 12 31 24
ME FINISHED

OU STARTING
OU FILEFORM FIX
OU PLOTFILE ANNUAL ALL ALL`ANNUAL.plt 10000
OU FINISHED

** ****
** It is recommended that the user not edit any data below this line
** ****

** BUILDING BLD 0 0 0 4 10
** BUILDING IDN TVY2T00E
** BUILDING NAM B1
** BUILDING CRN 433934.7 3757789.4
** BUILDING CRN 433926.5 3757749.6
** BUILDING CRN 433933.4 3757747.9
** BUILDING CRN 433934.7 3757753.5
** BUILDING CRN 433944.1 3757752.2
** BUILDING CRN 433945.8 3757763.3
** BUILDING CRN 433971.4 3757756.9
** BUILDING CRN 433976.6 3757782.1
** BUILDING CRN 433933.8 3757789.8
** BUILDING CRN 433934.7 3757789.4
** BUILDING BLD 0 0 0 4 7
** BUILDING IDN TVY2T00F
** BUILDING NAM B2
** BUILDING CRN 434042 3757756.5
** BUILDING CRN 434025.4 3757735.1
** BUILDING CRN 434041.2 3757721.8
** BUILDING CRN 434060 3757747.9
** BUILDING CRN 434049.7 3757755.6
** BUILDING CRN 434048 3757751.3
** BUILDING CRN 434042 3757756.5

** TAG NAM TVY2T00H
** TAG PRM 0 2 F F 1 255,0,0,0
** TAG CRD
434018.2,3757741.3,0,433990.5,3757747.0,0,433997.8,3757785.6,0,433960.5,3757791.9,0,433964.9,3757809.6,0,434065.9,3
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** AMPTYPE
** AMPDATUM -1
** AMPZONE -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984"],SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION UTM
** DATUM WGE
** UNITS METER
** ZONE 11
** HEMISPHERE N
** ORIGINLON 0
** ORIGINLAT 0
** PARALLEL1 0
** PARALLEL2 0
** AZIMUTH 0
** SCALEFACT 0
** FALSEEAST 0

```

```
** FALSENORTH 0  
** POSTFMT UNIFORM  
** TEMPLATE USERDEFINED  
** AERMODEXE AERMOD_BREEZE_19191_64.EXE  
** AERMAPEXE AERMAP_EPA 18081 64.EXE
```

*** Message Summary For AERMOD Model Setup ***

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****

ME W186	900	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	900	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

```
*****  
*** SETUP Finishes Successfully ***  
*****
```

► *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23
*** AERMET - VERSION 16216 *** ***
07:12:33

**Model Is Setup For Calculation of Average CONCntration 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 RURAL Dispersion Only.

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated T
3. Use Calms Processing Routine.
4. Use Missing Data Processing R
5. No Exponential Decay.

****Other Options Specified:**

- ADJ_U* - Use ADJ_U* option for SBL in AERMET
- 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: PM10

****Model Calculates ANNUAL Averages Only**

**This Run Includes: 196 Source(s); 1 Source Group(s); and 447 Receptor(s)

```
with:      7 POINT(s), including          0 POINTCAP(s) and      0 POINTHOR(s)
and:    189 VOLUME source(s)
and:      0 AREA type source(s)
and:      0 LINE source(s)
and:      0 RLINE/RLINEXT 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: 16216

****Output Options Selected:**

Model Outputs Tables of ANNUAL Averages by Receptor Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 0.00 ; 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 = 3.9 MB of RAM.**

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

*** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
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PAGE 2 *** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETRPLT RURAL ADJ U*

*** POINT SOURCE DATA ***

CAP/ SOURCE HOR ID VARY BY	NUMBER EMISSION RATE				BASE		STACK	STACK	STACK	STACK	BLDG	URBAN
	SOURCE SCALAR	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT VEL.	DIAMETER	EXISTS	SOURCE
	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)			
	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
TVY2T000 NO	0	0.33715E-07	434037.3	3757757.5	0.0	3.00	325.00	0.00	0.10	YES	NO	
TVY2T001 NO	0	0.33715E-07	434023.9	3757740.7	0.0	3.00	325.00	0.00	0.10	YES	NO	
TVY2T003 NO	0	0.33715E-07	434033.2	3757753.1	0.0	3.00	325.00	0.00	0.10	YES	NO	
TVY2T004 NO	0	0.33715E-07	434028.4	3757746.8	0.0	3.00	325.00	0.00	0.10	YES	NO	
TVY2T005 NO	0	0.33715E-07	433953.3	3757789.6	0.0	3.00	325.00	0.00	0.10	YES	NO	
TVY2T006	0	0.33715E-07	433958.1	3757788.1	0.0	3.00	325.00	0.00	0.10	YES	NO	

NO
 TVY2T007 0 0.33715E-07 433962.9 3757787.5 0.0 3.00 325.00 0.00 0.10 YES NO
 NO
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 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
TVY2T00I	0	0.33200E-07	434015.8	3757741.8	0.0	3.00	2.33	2.79	NO	
TVY2T00J	0	0.33200E-07	434010.9	3757742.8	0.0	3.00	2.33	2.79	NO	
TVY2T00K	0	0.33200E-07	434006.0	3757743.8	0.0	3.00	2.33	2.79	NO	
TVY2T00L	0	0.33200E-07	434001.1	3757744.8	0.0	3.00	2.33	2.79	NO	
TVY2T00M	0	0.33200E-07	433996.2	3757745.8	0.0	3.00	2.33	2.79	NO	
TVY2T00N	0	0.33200E-07	433991.3	3757746.8	0.0	3.00	2.33	2.79	NO	
TVY2T00O	0	0.33200E-07	433991.3	3757751.1	0.0	3.00	2.33	2.79	NO	
TVY2T00P	0	0.33200E-07	433992.2	3757756.1	0.0	3.00	2.33	2.79	NO	
TVY2T00Q	0	0.33200E-07	433993.1	3757761.0	0.0	3.00	2.33	2.79	NO	
TVY2T00R	0	0.33200E-07	433994.1	3757765.9	0.0	3.00	2.33	2.79	NO	
TVY2T00S	0	0.33200E-07	433995.0	3757770.8	0.0	3.00	2.33	2.79	NO	
TVY2T00T	0	0.33200E-07	433995.9	3757775.7	0.0	3.00	2.33	2.79	NO	
TVY2T00U	0	0.33200E-07	433996.9	3757780.6	0.0	3.00	2.33	2.79	NO	
TVY2T00V	0	0.33200E-07	433997.8	3757785.5	0.0	3.00	2.33	2.79	NO	
TVY2T00W	0	0.33200E-07	433992.9	3757786.4	0.0	3.00	2.33	2.79	NO	
TVY2T00X	0	0.33200E-07	433988.0	3757787.3	0.0	3.00	2.33	2.79	NO	
TVY2T00Y	0	0.33200E-07	433983.1	3757788.1	0.0	3.00	2.33	2.79	NO	
TVY2T00Z	0	0.33200E-07	433978.1	3757788.9	0.0	3.00	2.33	2.79	NO	
TVY2T010	0	0.33200E-07	433973.2	3757789.8	0.0	3.00	2.33	2.79	NO	
TVY2T011	0	0.33200E-07	433968.3	3757790.6	0.0	3.00	2.33	2.79	NO	
TVY2T012	0	0.33200E-07	433963.4	3757791.4	0.0	3.00	2.33	2.79	NO	
TVY2T013	0	0.33200E-07	433961.0	3757793.9	0.0	3.00	2.33	2.79	NO	
TVY2T014	0	0.33200E-07	433962.2	3757798.8	0.0	3.00	2.33	2.79	NO	
TVY2T015	0	0.33200E-07	433963.4	3757803.6	0.0	3.00	2.33	2.79	NO	
TVY2T016	0	0.33200E-07	433964.6	3757808.5	0.0	3.00	2.33	2.79	NO	
TVY2T017	0	0.33200E-07	433968.6	3757808.4	0.0	3.00	2.33	2.79	NO	
TVY2T018	0	0.33200E-07	433973.4	3757806.9	0.0	3.00	2.33	2.79	NO	
TVY2T019	0	0.33200E-07	433978.1	3757805.4	0.0	3.00	2.33	2.79	NO	
TVY2T01A	0	0.33200E-07	433982.9	3757803.9	0.0	3.00	2.33	2.79	NO	
TVY2T01B	0	0.33200E-07	433987.7	3757802.4	0.0	3.00	2.33	2.79	NO	
TVY2T01C	0	0.33200E-07	433992.4	3757800.9	0.0	3.00	2.33	2.79	NO	
TVY2T01D	0	0.33200E-07	433997.2	3757799.4	0.0	3.00	2.33	2.79	NO	
TVY2T01E	0	0.33200E-07	434002.0	3757797.9	0.0	3.00	2.33	2.79	NO	
TVY2T01F	0	0.33200E-07	434006.7	3757796.4	0.0	3.00	2.33	2.79	NO	
TVY2T01G	0	0.33200E-07	434011.5	3757794.9	0.0	3.00	2.33	2.79	NO	
TVY2T01H	0	0.33200E-07	434016.3	3757793.4	0.0	3.00	2.33	2.79	NO	
TVY2T01I	0	0.33200E-07	434021.0	3757791.9	0.0	3.00	2.33	2.79	NO	
TVY2T01J	0	0.33200E-07	434025.8	3757790.4	0.0	3.00	2.33	2.79	NO	
TVY2T01K	0	0.33200E-07	434030.6	3757788.9	0.0	3.00	2.33	2.79	NO	
TVY2T01L	0	0.33200E-07	434035.3	3757787.4	0.0	3.00	2.33	2.79	NO	

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 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
TVY2T01M	0	0.33200E-07	434040.1	3757785.8	0.0	3.00	2.33	2.79	NO	
TVY2T01N	0	0.33200E-07	434044.9	3757784.3	0.0	3.00	2.33	2.79	NO	
TVY2T01O	0	0.33200E-07	434049.6	3757782.8	0.0	3.00	2.33	2.79	NO	
TVY2T01P	0	0.33200E-07	434054.4	3757781.3	0.0	3.00	2.33	2.79	NO	
TVY2T01Q	0	0.33200E-07	434059.2	3757779.8	0.0	3.00	2.33	2.79	NO	
TVY2T01R	0	0.33200E-07	434063.9	3757778.3	0.0	3.00	2.33	2.79	NO	
TVY2T01S	0	0.33200E-07	434068.6	3757776.5	0.0	3.00	2.33	2.79	NO	
TVY2T01T	0	0.33200E-07	434073.2	3757774.5	0.0	3.00	2.33	2.79	NO	
TVY2T01U	0	0.33200E-07	434077.7	3757772.5	0.0	3.00	2.33	2.79	NO	
TVY2T01V	0	0.33200E-07	434082.3	3757770.4	0.0	3.00	2.33	2.79	NO	
TVY2T01W	0	0.33200E-07	434086.9	3757768.4	0.0	3.00	2.33	2.79	NO	
TVY2T01X	0	0.33200E-07	434091.5	3757766.4	0.0	3.00	2.33	2.79	NO	
TVY2T01Y	0	0.33200E-07	434096.0	3757764.4	0.0	3.00	2.33	2.79	NO	
TVY2T01Z	0	0.33200E-07	434100.6	3757762.4	0.0	3.00	2.33	2.79	NO	
TVY2T020	0	0.33200E-07	434105.2	3757760.3	0.0	3.00	2.33	2.79	NO	
TVY2T021	0	0.33200E-07	434109.8	3757758.3	0.0	3.00	2.33	2.79	NO	
TVY2T022	0	0.33200E-07	434114.3	3757756.3	0.0	3.00	2.33	2.79	NO	
TVY2T023	0	0.33200E-07	434118.9	3757754.3	0.0	3.00	2.33	2.79	NO	
TVY2T024	0	0.33200E-07	434123.5	3757752.2	0.0	3.00	2.33	2.79	NO	
TVY2T025	0	0.33200E-07	434128.0	3757750.2	0.0	3.00	2.33	2.79	NO	
TVY2T026	0	0.33200E-07	434132.6	3757748.2	0.0	3.00	2.33	2.79	NO	
TVY2T027	0	0.33200E-07	434137.2	3757746.2	0.0	3.00	2.33	2.79	NO	
TVY2T028	0	0.33200E-07	434141.8	3757744.2	0.0	3.00	2.33	2.79	NO	
TVY2T029	0	0.33200E-07	434146.3	3757742.1	0.0	3.00	2.33	2.79	NO	
TVY2T02A	0	0.33200E-07	434150.9	3757740.1	0.0	3.00	2.33	2.79	NO	
TVY2T02B	0	0.33200E-07	434155.5	3757738.1	0.0	3.00	2.33	2.79	NO	
TVY2T02C	0	0.33200E-07	434160.1	3757736.1	0.0	3.00	2.33	2.79	NO	
TVY2T02D	0	0.33200E-07	434164.5	3757733.8	0.0	3.00	2.33	2.79	NO	
TVY2T02E	0	0.33200E-07	434168.9	3757731.4	0.0	3.00	2.33	2.79	NO	
TVY2T02F	0	0.33200E-07	434173.3	3757729.0	0.0	3.00	2.33	2.79	NO	
TVY2T02G	0	0.33200E-07	434177.6	3757726.6	0.0	3.00	2.33	2.79	NO	
TVY2T02H	0	0.33200E-07	434182.0	3757724.2	0.0	3.00	2.33	2.79	NO	
TVY2T02I	0	0.33200E-07	434186.4	3757721.8	0.0	3.00	2.33	2.79	NO	
TVY2T02J	0	0.33200E-07	434190.8	3757719.4	0.0	3.00	2.33	2.79	NO	
TVY2T02K	0	0.33200E-07	434195.2	3757717.0	0.0	3.00	2.33	2.79	NO	
TVY2T02L	0	0.33200E-07	434199.6	3757714.6	0.0	3.00	2.33	2.79	NO	
TVY2T02M	0	0.33200E-07	434204.0	3757712.2	0.0	3.00	2.33	2.79	NO	
TVY2T02N	0	0.33200E-07	434208.4	3757709.8	0.0	3.00	2.33	2.79	NO	
TVY2T02O	0	0.33200E-07	434212.8	3757707.4	0.0	3.00	2.33	2.79	NO	
TVY2T02P	0	0.33200E-07	434217.1	3757705.0	0.0	3.00	2.33	2.79	NO	

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
TVY2T02Q	0	0.33200E-07	434221.5	3757702.6	0.0	3.00	2.33	2.79	NO	
TVY2T02R	0	0.33200E-07	434225.9	3757700.2	0.0	3.00	2.33	2.79	NO	
TVY2T02S	0	0.33200E-07	434230.3	3757697.8	0.0	3.00	2.33	2.79	NO	
TVY2T02T	0	0.33200E-07	434234.7	3757695.4	0.0	3.00	2.33	2.79	NO	

TVY2T02U	0	0.33200E-07	434239.1	3757693.0	0.0	3.00	2.33	2.79	NO
TVY2T02V	0	0.33200E-07	434243.5	3757690.6	0.0	3.00	2.33	2.79	NO
TVY2T02W	0	0.33200E-07	434247.9	3757688.2	0.0	3.00	2.33	2.79	NO
TVY2T02X	0	0.33200E-07	434252.2	3757685.8	0.0	3.00	2.33	2.79	NO
TVY2T02Y	0	0.33200E-07	434256.6	3757683.4	0.0	3.00	2.33	2.79	NO
TVY2T02Z	0	0.33200E-07	434259.7	3757685.0	0.0	3.00	2.33	2.79	NO
TVY2T030	0	0.33200E-07	434261.8	3757689.5	0.0	3.00	2.33	2.79	NO
TVY2T031	0	0.33200E-07	434263.9	3757694.1	0.0	3.00	2.33	2.79	NO
TVY2T032	0	0.33200E-07	434265.7	3757698.5	0.0	3.00	2.33	2.79	NO
TVY2T033	0	0.33200E-07	434261.3	3757700.9	0.0	3.00	2.33	2.79	NO
TVY2T034	0	0.33200E-07	434256.9	3757703.2	0.0	3.00	2.33	2.79	NO
TVY2T035	0	0.33200E-07	434252.4	3757705.6	0.0	3.00	2.33	2.79	NO
TVY2T036	0	0.33200E-07	434248.0	3757707.9	0.0	3.00	2.33	2.79	NO
TVY2T037	0	0.33200E-07	434243.6	3757710.2	0.0	3.00	2.33	2.79	NO
TVY2T038	0	0.33200E-07	434239.2	3757712.6	0.0	3.00	2.33	2.79	NO
TVY2T039	0	0.33200E-07	434234.8	3757714.9	0.0	3.00	2.33	2.79	NO
TVY2T03A	0	0.33200E-07	434230.4	3757717.3	0.0	3.00	2.33	2.79	NO
TVY2T03B	0	0.33200E-07	434225.9	3757719.6	0.0	3.00	2.33	2.79	NO
TVY2T03C	0	0.33200E-07	434221.5	3757722.0	0.0	3.00	2.33	2.79	NO
TVY2T03D	0	0.33200E-07	434217.1	3757724.3	0.0	3.00	2.33	2.79	NO
TVY2T03E	0	0.33200E-07	434212.7	3757726.7	0.0	3.00	2.33	2.79	NO
TVY2T03F	0	0.33200E-07	434208.3	3757729.0	0.0	3.00	2.33	2.79	NO
TVY2T03G	0	0.33200E-07	434203.9	3757731.4	0.0	3.00	2.33	2.79	NO
TVY2T03H	0	0.33200E-07	434199.5	3757733.7	0.0	3.00	2.33	2.79	NO
TVY2T03I	0	0.33200E-07	434195.0	3757736.1	0.0	3.00	2.33	2.79	NO
TVY2T03J	0	0.33200E-07	434190.6	3757738.4	0.0	3.00	2.33	2.79	NO
TVY2T03K	0	0.33200E-07	434186.2	3757740.7	0.0	3.00	2.33	2.79	NO
TVY2T03L	0	0.33200E-07	434181.8	3757743.1	0.0	3.00	2.33	2.79	NO
TVY2T03M	0	0.33200E-07	434177.4	3757745.4	0.0	3.00	2.33	2.79	NO
TVY2T03N	0	0.33200E-07	434173.0	3757747.8	0.0	3.00	2.33	2.79	NO
TVY2T03O	0	0.33200E-07	434168.5	3757750.1	0.0	3.00	2.33	2.79	NO
TVY2T03P	0	0.33200E-07	434164.1	3757752.5	0.0	3.00	2.33	2.79	NO
TVY2T03Q	0	0.33200E-07	434159.7	3757754.8	0.0	3.00	2.33	2.79	NO
TVY2T03R	0	0.33200E-07	434155.3	3757757.1	0.0	3.00	2.33	2.79	NO
TVY2T03S	0	0.33200E-07	434150.7	3757759.2	0.0	3.00	2.33	2.79	NO
TVY2T03T	0	0.33200E-07	434146.2	3757761.3	0.0	3.00	2.33	2.79	NO

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER CATS.	EMISSION RATE PART. (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV.	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE SCALAR VARY BY	EMISSION RATE
TVY2T03U	0	0.33200E-07	434141.6	3757763.3	0.0	3.00	2.33	2.79	NO	
TVY2T03V	0	0.33200E-07	434137.1	3757765.4	0.0	3.00	2.33	2.79	NO	
TVY2T03W	0	0.33200E-07	434132.5	3757767.5	0.0	3.00	2.33	2.79	NO	
TVY2T03X	0	0.33200E-07	434128.0	3757769.5	0.0	3.00	2.33	2.79	NO	
TVY2T03Y	0	0.33200E-07	434123.4	3757771.6	0.0	3.00	2.33	2.79	NO	
TVY2T03Z	0	0.33200E-07	434118.9	3757773.7	0.0	3.00	2.33	2.79	NO	
TVY2T040	0	0.33200E-07	434114.3	3757775.7	0.0	3.00	2.33	2.79	NO	
TVY2T041	0	0.33200E-07	434109.7	3757777.8	0.0	3.00	2.33	2.79	NO	
TVY2T042	0	0.33200E-07	434105.2	3757779.9	0.0	3.00	2.33	2.79	NO	
TVY2T043	0	0.33200E-07	434100.6	3757781.9	0.0	3.00	2.33	2.79	NO	
TVY2T044	0	0.33200E-07	434096.1	3757784.0	0.0	3.00	2.33	2.79	NO	
TVY2T045	0	0.33200E-07	434091.5	3757786.0	0.0	3.00	2.33	2.79	NO	
TVY2T046	0	0.33200E-07	434087.0	3757788.1	0.0	3.00	2.33	2.79	NO	
TVY2T047	0	0.33200E-07	434082.4	3757790.2	0.0	3.00	2.33	2.79	NO	
TVY2T048	0	0.33200E-07	434077.9	3757792.2	0.0	3.00	2.33	2.79	NO	
TVY2T049	0	0.33200E-07	434073.3	3757794.3	0.0	3.00	2.33	2.79	NO	

TVY2T04A	0	0.33200E-07	434068.8	3757796.4	0.0	3.00	2.33	2.79	NO
TVY2T04B	0	0.33200E-07	434064.1	3757798.2	0.0	3.00	2.33	2.79	NO
TVY2T04C	0	0.33200E-07	434059.3	3757799.5	0.0	3.00	2.33	2.79	NO
TVY2T04D	0	0.33200E-07	434054.4	3757800.7	0.0	3.00	2.33	2.79	NO
TVY2T04E	0	0.33200E-07	434049.6	3757801.9	0.0	3.00	2.33	2.79	NO
TVY2T04F	0	0.33200E-07	434044.8	3757803.2	0.0	3.00	2.33	2.79	NO
TVY2T04G	0	0.33200E-07	434039.9	3757804.4	0.0	3.00	2.33	2.79	NO
TVY2T04H	0	0.33200E-07	434035.1	3757805.6	0.0	3.00	2.33	2.79	NO
TVY2T04I	0	0.33200E-07	434030.2	3757806.9	0.0	3.00	2.33	2.79	NO
TVY2T04J	0	0.33200E-07	434025.4	3757808.1	0.0	3.00	2.33	2.79	NO
TVY2T04K	0	0.33200E-07	434020.5	3757809.3	0.0	3.00	2.33	2.79	NO
TVY2T04L	0	0.33200E-07	434015.7	3757810.6	0.0	3.00	2.33	2.79	NO
TVY2T04M	0	0.33200E-07	434010.8	3757811.8	0.0	3.00	2.33	2.79	NO
TVY2T04N	0	0.33200E-07	434006.0	3757813.0	0.0	3.00	2.33	2.79	NO
TVY2T04O	0	0.33200E-07	434001.1	3757814.3	0.0	3.00	2.33	2.79	NO
TVY2T04P	0	0.33200E-07	433996.3	3757815.5	0.0	3.00	2.33	2.79	NO
TVY2T04Q	0	0.33200E-07	433991.5	3757816.7	0.0	3.00	2.33	2.79	NO
TVY2T04R	0	0.33200E-07	433986.6	3757818.0	0.0	3.00	2.33	2.79	NO
TVY2T04S	0	0.33200E-07	433981.8	3757819.2	0.0	3.00	2.33	2.79	NO
TVY2T04T	0	0.33200E-07	433976.9	3757820.4	0.0	3.00	2.33	2.79	NO
TVY2T04U	0	0.33200E-07	433972.1	3757821.7	0.0	3.00	2.33	2.79	NO
TVY2T04V	0	0.33200E-07	433967.2	3757822.9	0.0	3.00	2.33	2.79	NO
TVY2T04W	0	0.33200E-07	433962.4	3757824.1	0.0	3.00	2.33	2.79	NO
TVY2T04X	0	0.33200E-07	433958.8	3757823.5	0.0	3.00	2.33	2.79	NO

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
TVY2T04Y	0	0.33200E-07	433958.0	3757818.6	0.0	3.00	2.33	2.79	NO	
TVY2T04Z	0	0.33200E-07	433957.2	3757813.6	0.0	3.00	2.33	2.79	NO	
TVY2T050	0	0.33200E-07	433956.4	3757808.7	0.0	3.00	2.33	2.79	NO	
TVY2T051	0	0.33200E-07	433955.6	3757803.8	0.0	3.00	2.33	2.79	NO	
TVY2T052	0	0.33200E-07	433954.9	3757798.8	0.0	3.00	2.33	2.79	NO	
TVY2T053	0	0.33200E-07	433954.1	3757793.9	0.0	3.00	2.33	2.79	NO	
TVY2T054	0	0.33200E-07	433953.3	3757788.9	0.0	3.00	2.33	2.79	NO	
TVY2T055	0	0.33200E-07	433957.5	3757787.4	0.0	3.00	2.33	2.79	NO	
TVY2T056	0	0.33200E-07	433962.3	3757786.3	0.0	3.00	2.33	2.79	NO	
TVY2T057	0	0.33200E-07	433967.2	3757785.2	0.0	3.00	2.33	2.79	NO	
TVY2T058	0	0.33200E-07	433972.1	3757784.2	0.0	3.00	2.33	2.79	NO	
TVY2T059	0	0.33200E-07	433977.0	3757783.1	0.0	3.00	2.33	2.79	NO	
TVY2T05A	0	0.33200E-07	433981.9	3757782.0	0.0	3.00	2.33	2.79	NO	
TVY2T05B	0	0.33200E-07	433986.8	3757780.9	0.0	3.00	2.33	2.79	NO	
TVY2T05C	0	0.33200E-07	433991.6	3757779.9	0.0	3.00	2.33	2.79	NO	
TVY2T05D	0	0.33200E-07	433991.1	3757775.2	0.0	3.00	2.33	2.79	NO	
TVY2T05E	0	0.33200E-07	433990.2	3757770.3	0.0	3.00	2.33	2.79	NO	
TVY2T05F	0	0.33200E-07	433989.2	3757765.4	0.0	3.00	2.33	2.79	NO	
TVY2T05G	0	0.33200E-07	433988.3	3757760.5	0.0	3.00	2.33	2.79	NO	
TVY2T05H	0	0.33200E-07	433987.3	3757755.6	0.0	3.00	2.33	2.79	NO	
TVY2T05I	0	0.33200E-07	433986.4	3757750.7	0.0	3.00	2.33	2.79	NO	
TVY2T05J	0	0.33200E-07	433985.4	3757745.8	0.0	3.00	2.33	2.79	NO	
TVY2T05K	0	0.33200E-07	433988.3	3757743.4	0.0	3.00	2.33	2.79	NO	
TVY2T05L	0	0.33200E-07	433993.2	3757742.4	0.0	3.00	2.33	2.79	NO	
TVY2T05M	0	0.33200E-07	433998.1	3757741.4	0.0	3.00	2.33	2.79	NO	
TVY2T05N	0	0.33200E-07	434003.0	3757740.4	0.0	3.00	2.33	2.79	NO	
TVY2T05O	0	0.33200E-07	434007.9	3757739.3	0.0	3.00	2.33	2.79	NO	
TVY2T05P	0	0.33200E-07	434012.8	3757738.3	0.0	3.00	2.33	2.79	NO	

TVY2T05Q 0 0.33200E-07 434017.7 3757737.3 0.0 3.00 2.33 2.79 NO
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP	ID	SOURCE IDs
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ALL		
TVY2T00I	TVY2T000 ,	TVY2T001 , TVY2T003 , TVY2T004 , TVY2T005 , TVY2T006 , TVY2T007 ,
TVY2T00Q	TVY2T00J ,	TVY2T00K , TVY2T00L , TVY2T00M , TVY2T00N , TVY2T00O , TVY2T00P ,
TVY2T00Y	TVY2T00R ,	TVY2T00S , TVY2T00T , TVY2T00U , TVY2T00V , TVY2T00W , TVY2T00X ,
TVY2T016	TVY2T00Z ,	TVY2T010 , TVY2T011 , TVY2T012 , TVY2T013 , TVY2T014 , TVY2T015 ,
TVY2T01E	TVY2T017 ,	TVY2T018 , TVY2T019 , TVY2T01A , TVY2T01B , TVY2T01C , TVY2T01D ,
TVY2T01M	TVY2T01F ,	TVY2T01G , TVY2T01H , TVY2T01I , TVY2T01J , TVY2T01K , TVY2T01L ,
TVY2T01U	TVY2T01N ,	TVY2T010 , TVY2T01P , TVY2T01Q , TVY2T01R , TVY2T01S , TVY2T01T ,
TVY2T022	TVY2T01V ,	TVY2T01W , TVY2T01X , TVY2T01Y , TVY2T01Z , TVY2T020 , TVY2T021 ,
TVY2T02A	TVY2T023 ,	TVY2T024 , TVY2T025 , TVY2T026 , TVY2T027 , TVY2T028 , TVY2T029 ,
TVY2T02I	TVY2T02B ,	TVY2T02C , TVY2T02D , TVY2T02E , TVY2T02F , TVY2T02G , TVY2T02H ,
TVY2T02Q	TVY2T02J ,	TVY2T02K , TVY2T02L , TVY2T02M , TVY2T02N , TVY2T02O , TVY2T02P ,
TVY2T02Y	TVY2T02R ,	TVY2T02S , TVY2T02T , TVY2T02U , TVY2T02V , TVY2T02W , TVY2T02X ,
TVY2T036	TVY2T02Z ,	TVY2T030 , TVY2T031 , TVY2T032 , TVY2T033 , TVY2T034 , TVY2T035 ,
TVY2T03E	TVY2T037 ,	TVY2T038 , TVY2T039 , TVY2T03A , TVY2T03B , TVY2T03C , TVY2T03D ,
TVY2T03M	TVY2T03F ,	TVY2T03G , TVY2T03H , TVY2T03I , TVY2T03J , TVY2T03K , TVY2T03L ,
TVY2T03U	TVY2T03N ,	TVY2T030 , TVY2T03P , TVY2T03Q , TVY2T03R , TVY2T03S , TVY2T03T ,
TVY2T042	TVY2T03V ,	TVY2T03W , TVY2T03X , TVY2T03Y , TVY2T03Z , TVY2T040 , TVY2T041 ,
TVY2T04A	TVY2T043 ,	TVY2T044 , TVY2T045 , TVY2T046 , TVY2T047 , TVY2T048 , TVY2T049 ,

TVY2T04I , TVY2T04B , TVY2T04C , TVY2T04D , TVY2T04E , TVY2T04F , TVY2T04G , TVY2T04H ,
 TVY2T04Q , TVY2T04J , TVY2T04K , TVY2T04L , TVY2T04M , TVY2T04N , TVY2T04O , TVY2T04P ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE	ID:	TVY2T000											
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ		
1	4.0,	31.9,	34.8,	-34.5,	-8.1,	2	4.0,	28.1,	34.7,	-32.2,	-10.6,		
3	4.0,	23.6,	33.5,	-29.0,	-12.7,	4	0.0,	0.0,	0.0,	0.0,	0.0,		
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,		
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	4.0,	34.0,	36.3,	-15.6,	-18.8,		
9	4.0,	34.7,	34.6,	-11.9,	-18.4,	10	4.0,	34.8,	31.9,	-7.8,	-17.1,		
11	4.0,	34.7,	28.1,	-3.5,	-14.9,	12	4.0,	33.5,	23.6,	0.9,	-12.2,		
13	4.0,	32.1,	21.7,	4.2,	-8.8,	14	4.0,	34.7,	26.1,	3.8,	-6.1,		
15	4.0,	36.4,	29.7,	3.2,	-3.3,	16	4.0,	36.9,	32.3,	2.5,	-0.4,		
17	4.0,	36.3,	34.0,	1.8,	2.5,	18	4.0,	34.6,	34.7,	1.0,	5.4,		
19	4.0,	31.9,	34.8,	-0.3,	8.1,	20	4.0,	28.1,	34.7,	-2.5,	10.6,		
21	4.0,	23.6,	33.5,	-4.5,	12.7,	22	0.0,	0.0,	0.0,	0.0,	0.0,		
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,		
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	4.0,	34.0,	36.3,	-20.7,	18.8,		
27	4.0,	34.7,	34.6,	-22.7,	18.4,	28	4.0,	34.8,	31.9,	-24.0,	17.1,		
29	4.0,	34.7,	28.1,	-24.6,	14.9,	30	4.0,	33.5,	23.6,	-24.5,	12.2,		
31	4.0,	32.1,	21.7,	-25.9,	8.8,	32	4.0,	34.7,	26.1,	-29.9,	6.1,		
33	4.0,	36.4,	29.7,	-32.9,	3.3,	34	4.0,	36.9,	32.3,	-34.9,	0.4,		
35	4.0,	36.3,	34.0,	-35.8,	-2.5,	36	4.0,	34.6,	34.7,	-35.7,	-5.4,		

SOURCE ID: TVY2T001
IFV BH BW BL XADJ YADJ IFV BH BW BL XADJ YADJ

1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	4.0,	26.1,	34.7,	-2.4,	-12.6,	6	4.0,	29.7,	36.4,	-1.5,	-10.2,
7	4.0,	32.3,	36.9,	-0.5,	-7.5,	8	4.0,	34.0,	36.3,	0.5,	-4.6,
9	4.0,	34.7,	34.6,	1.5,	-1.6,	10	4.0,	34.8,	31.9,	2.4,	1.8,
11	4.0,	34.7,	28.1,	3.3,	5.5,	12	4.0,	33.5,	23.6,	4.1,	9.0,
13	4.0,	32.1,	21.7,	3.7,	12.7,	14	4.0,	34.7,	26.1,	-0.5,	14.9,
15	4.0,	36.4,	29.7,	-4.6,	16.7,	16	4.0,	36.9,	32.3,	-8.7,	17.9,
17	4.0,	36.3,	34.0,	-12.4,	18.7,	18	4.0,	34.6,	34.7,	-15.8,	18.8,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	4.0,	26.1,	34.7,	-32.3,	12.6,	24	4.0,	29.7,	36.4,	-34.9,	10.2,
25	4.0,	32.3,	36.9,	-36.4,	7.5,	26	4.0,	34.0,	36.3,	-36.8,	4.6,
27	4.0,	34.7,	34.6,	-36.1,	1.6,	28	4.0,	34.8,	31.9,	-34.3,	-1.8,
29	4.0,	34.7,	28.1,	-31.5,	-5.5,	30	4.0,	33.5,	23.6,	-27.7,	-9.0,
31	4.0,	32.1,	21.7,	-25.4,	-12.7,	32	4.0,	34.7,	26.1,	-25.6,	-14.9,
33	4.0,	36.4,	29.7,	-25.0,	-16.7,	34	4.0,	36.9,	32.3,	-23.7,	-17.9,
35	4.0,	36.3,	34.0,	-21.6,	-18.7,	36	4.0,	34.6,	34.7,	-18.9,	-18.8,

SOURCE ID: TVY2T003

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	4.0,	31.9,	34.8,	-29.4,	-11.4,	2	4.0,	28.1,	34.7,	-26.7,	-12.9,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	4.0,	29.7,	36.4,	-15.8,	-16.3,
7	4.0,	32.3,	36.9,	-13.5,	-16.0,	8	4.0,	34.0,	36.3,	-10.8,	-15.2,
9	4.0,	34.7,	34.6,	-7.8,	-14.0,	10	4.0,	34.8,	31.9,	-4.6,	-12.1,
11	4.0,	34.7,	28.1,	-1.2,	-9.3,	12	4.0,	33.5,	23.6,	2.2,	-6.3,
13	4.0,	32.1,	21.7,	4.6,	-2.8,	14	4.0,	34.7,	26.1,	3.0,	-0.2,
15	4.0,	36.4,	29.7,	1.5,	2.4,	16	4.0,	36.9,	32.3,	-0.2,	5.0,
17	4.0,	36.3,	34.0,	-1.8,	7.3,	18	4.0,	34.6,	34.7,	-3.4,	9.5,
19	4.0,	31.9,	34.8,	-5.3,	11.4,	20	4.0,	28.1,	34.7,	-8.0,	12.9,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	4.0,	29.7,	36.4,	-20.6,	16.3,
25	4.0,	32.3,	36.9,	-23.4,	16.0,	26	4.0,	34.0,	36.3,	-25.5,	15.2,
27	4.0,	34.7,	34.6,	-26.8,	14.0,	28	4.0,	34.8,	31.9,	-27.3,	12.1,
29	4.0,	34.7,	28.1,	-27.0,	9.3,	30	4.0,	33.5,	23.6,	-25.8,	6.3,
31	4.0,	32.1,	21.7,	-26.2,	2.8,	32	4.0,	34.7,	26.1,	-29.1,	0.2,
33	4.0,	36.4,	29.7,	-31.1,	-2.4,	34	4.0,	36.9,	32.3,	-32.1,	-5.0,
35	4.0,	36.3,	34.0,	-32.2,	-7.3,	36	4.0,	34.6,	34.7,	-31.3,	-9.5,

SOURCE ID: TVY2T004

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	4.0,	31.9,	34.8,	-22.4,	-15.0,	2	4.0,	28.1,	34.7,	-19.1,	-15.2,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	4.0,	26.1,	34.7,	-9.8,	-14.4,	6	4.0,	29.7,	36.4,	-8.5,	-13.2,
7	4.0,	32.3,	36.9,	-6.8,	-11.7,	8	4.0,	34.0,	36.3,	-5.0,	-9.8,
9	4.0,	34.7,	34.6,	-3.0,	-7.6,	10	4.0,	34.8,	31.9,	-0.9,	-5.0,
11	4.0,	34.7,	28.1,	1.2,	-1.8,	12	4.0,	33.5,	23.6,	3.2,	1.5,
13	4.0,	32.1,	21.7,	4.2,	5.1,	14	4.0,	34.7,	26.1,	1.3,	7.5,
15	4.0,	36.4,	29.7,	-1.6,	9.7,	16	4.0,	36.9,	32.3,	-4.5,	11.6,
17	4.0,	36.3,	34.0,	-7.2,	13.2,	18	4.0,	34.6,	34.7,	-9.7,	14.3,
19	4.0,	31.9,	34.8,	-12.4,	15.0,	20	4.0,	28.1,	34.7,	-15.6,	15.2,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	4.0,	26.1,	34.7,	-24.9,	14.4,	24	4.0,	29.7,	36.4,	-27.9,	13.2,
25	4.0,	32.3,	36.9,	-30.1,	11.7,	26	4.0,	34.0,	36.3,	-31.3,	9.8,
27	4.0,	34.7,	34.6,	-31.6,	7.6,	28	4.0,	34.8,	31.9,	-30.9,	5.0,
29	4.0,	34.7,	28.1,	-29.3,	1.8,	30	4.0,	33.5,	23.6,	-26.8,	-1.5,
31	4.0,	32.1,	21.7,	-25.9,	-5.1,	32	4.0,	34.7,	26.1,	-27.4,	-7.5,
33	4.0,	36.4,	29.7,	-28.1,	-9.7,	34	4.0,	36.9,	32.3,	-27.9,	-11.6,
35	4.0,	36.3,	34.0,	-26.8,	-13.2,	36	4.0,	34.6,	34.7,	-25.0,	-14.3,

▲ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23

*** AERMET - VERSION 16216 *** ***
07:12:33

*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: TVY2T005

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	4.0,	43.7,	41.3,	-44.5,	-2.4,	2	4.0,	46.6,	47.7,	-46.8,	-4.9,
3	4.0,	49.0,	53.2,	-48.0,	-7.5,	4	4.0,	49.9,	57.1,	-47.9,	-9.9,
5	4.0,	49.4,	59.3,	-46.2,	-12.0,	6	4.0,	47.3,	59.6,	-43.2,	-13.7,
7	4.0,	43.8,	58.2,	-38.9,	-15.0,	8	4.0,	41.2,	55.0,	-33.3,	-17.0,
9	4.0,	41.9,	50.1,	-26.8,	-20.8,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	4.0,	47.7,	46.6,	-18.4,	-22.9,	12	4.0,	53.2,	49.0,	-17.0,	-21.4,
13	4.0,	57.1,	49.9,	-15.1,	-19.3,	14	4.0,	59.3,	49.4,	-12.7,	-16.6,
15	4.0,	59.6,	47.3,	-9.9,	-13.4,	16	4.0,	58.2,	43.8,	-6.9,	-9.8,
17	4.0,	55.0,	41.2,	-3.6,	-5.8,	18	4.0,	50.1,	41.9,	-0.2,	-1.8,
19	4.0,	43.7,	41.3,	3.2,	2.4,	20	4.0,	46.6,	47.7,	-0.9,	4.9,
21	4.0,	49.0,	53.2,	-5.1,	7.5,	22	4.0,	49.9,	57.1,	-9.2,	9.9,
23	4.0,	49.4,	59.3,	-13.0,	12.0,	24	4.0,	47.3,	59.6,	-16.4,	13.7,
25	4.0,	43.8,	58.2,	-19.3,	15.0,	26	4.0,	41.2,	55.0,	-21.6,	17.0,
27	4.0,	41.9,	50.1,	-23.3,	20.8,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	4.0,	47.7,	46.6,	-28.2,	22.9,	30	4.0,	53.2,	49.0,	-32.0,	21.4,
31	4.0,	57.1,	49.9,	-34.9,	19.3,	32	4.0,	59.3,	49.4,	-36.7,	16.6,
33	4.0,	59.6,	47.3,	-37.4,	13.4,	34	4.0,	58.2,	43.8,	-36.9,	9.8,
35	4.0,	55.0,	41.2,	-37.6,	5.8,	36	4.0,	50.1,	41.9,	-41.7,	1.8,

SOURCE ID: TVY2T006

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	4.0,	43.7,	41.3,	-43.9,	2.6,	2	4.0,	46.6,	47.7,	-47.0,	0.1,
3	4.0,	49.0,	53.2,	-49.1,	-2.6,	4	4.0,	49.9,	57.1,	-49.8,	-5.3,
5	4.0,	49.4,	59.3,	-48.9,	-7.8,	6	4.0,	47.3,	59.6,	-46.6,	-10.0,
7	4.0,	43.8,	58.2,	-42.9,	-12.0,	8	4.0,	41.2,	55.0,	-37.8,	-14.7,
9	4.0,	41.9,	50.1,	-31.6,	-19.2,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	4.0,	47.7,	46.6,	-23.4,	-23.2,	12	4.0,	53.2,	49.0,	-21.9,	-22.5,
13	4.0,	57.1,	49.9,	-19.7,	-21.2,	14	4.0,	59.3,	49.4,	-16.9,	-19.3,
15	4.0,	59.6,	47.3,	-13.6,	-16.8,	16	4.0,	58.2,	43.8,	-9.9,	-13.8,
17	4.0,	55.0,	41.2,	-5.9,	-10.3,	18	4.0,	50.1,	41.9,	-1.7,	-6.5,
19	4.0,	43.7,	41.3,	2.5,	-2.6,	20	4.0,	46.6,	47.7,	-0.7,	-0.1,
21	4.0,	49.0,	53.2,	-4.0,	2.6,	22	4.0,	49.9,	57.1,	-7.3,	5.3,
23	4.0,	49.4,	59.3,	-10.3,	7.8,	24	4.0,	47.3,	59.6,	-13.0,	10.0,
25	4.0,	43.8,	58.2,	-15.3,	12.0,	26	4.0,	41.2,	55.0,	-17.2,	14.7,
27	4.0,	41.9,	50.1,	-18.5,	19.2,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	4.0,	47.7,	46.6,	-23.2,	23.2,	30	4.0,	53.2,	49.0,	-27.1,	22.5,
31	4.0,	57.1,	49.9,	-30.2,	21.2,	32	4.0,	59.3,	49.4,	-32.4,	19.3,
33	4.0,	59.6,	47.3,	-33.7,	16.8,	34	4.0,	58.2,	43.8,	-33.9,	13.8,
35	4.0,	55.0,	41.2,	-35.3,	10.3,	36	4.0,	50.1,	41.9,	-40.2,	6.5,

SOURCE ID: TVY2T007

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	4.0,	43.7,	41.3,	-44.1,	7.4,	2	4.0,	46.6,	47.7,	-48.1,	4.8,
3	4.0,	49.0,	53.2,	-51.0,	1.9,	4	4.0,	49.9,	57.1,	-52.4,	-1.2,
5	4.0,	49.4,	59.3,	-52.2,	-4.2,	6	4.0,	47.3,	59.6,	-50.5,	-7.1,
7	4.0,	43.8,	58.2,	-47.2,	-9.8,	8	4.0,	41.2,	55.0,	-42.4,	-13.3,
9	4.0,	41.9,	50.1,	-36.4,	-18.7,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	4.0,	47.7,	46.6,	-28.1,	-24.2,	12	4.0,	53.2,	49.0,	-26.4,	-24.4,
13	4.0,	57.1,	49.9,	-23.8,	-23.9,	14	4.0,	59.3,	49.4,	-20.5,	-22.6,
15	4.0,	59.6,	47.3,	-16.5,	-20.7,	16	4.0,	58.2,	43.8,	-12.1,	-18.1,
17	4.0,	55.0,	41.2,	-7.3,	-14.9,	18	4.0,	50.1,	41.9,	-2.3,	-11.4,
19	4.0,	43.7,	41.3,	2.8,	-7.4,	20	4.0,	46.6,	47.7,	0.4,	-4.8,
21	4.0,	49.0,	53.2,	-2.2,	-1.9,	22	4.0,	49.9,	57.1,	-4.7,	1.2,
23	4.0,	49.4,	59.3,	-7.0,	4.2,	24	4.0,	47.3,	59.6,	-9.2,	7.1,
25	4.0,	43.8,	58.2,	-11.0,	9.8,	26	4.0,	41.2,	55.0,	-12.6,	13.3,
27	4.0,	41.9,	50.1,	-13.7,	18.7,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	4.0,	47.7,	46.6,	-18.4,	24.2,	30	4.0,	53.2,	49.0,	-22.7,	24.4,
31	4.0,	57.1,	49.9,	-26.2,	23.9,	32	4.0,	59.3,	49.4,	-28.9,	22.6,
33	4.0,	59.6,	47.3,	-30.8,	20.7,	34	4.0,	58.2,	43.8,	-31.7,	18.1,
35	4.0,	55.0,	41.2,	-33.9,	14.9,	36	4.0,	50.1,	41.9,	-39.6,	11.4,

0.00	0.00							
3757769.40		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757804.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757838.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757873.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757908.20		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757942.90		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757977.60		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3758012.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							

↑ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction

07/20/23

*** AERMET - VERSION 16216 *** ***

* * *

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*** MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)
434272.80	433965.50 434009.40 434053.30 434097.20 434141.10 434185.00 434228.90
	434316.70

3757318.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757353.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757387.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757422.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757457.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757491.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757526.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757561.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757595.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757630.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757665.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757734.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757769.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757804.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757838.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757873.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						

3757908.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757942.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757977.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3758012.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						

*** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23
*** AERMET - VERSION 16216 *** ***
07:12:33

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** NETWORK ID: TTY2T05R ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	434360.60	434404.50	434448.40	X-COORD (METERS)
3757318.30	0.00	0.00	0.00	
3757353.00	0.00	0.00	0.00	
3757387.70	0.00	0.00	0.00	
3757422.40	0.00	0.00	0.00	
3757457.10	0.00	0.00	0.00	
3757491.80	0.00	0.00	0.00	
3757526.50	0.00	0.00	0.00	
3757561.20	0.00	0.00	0.00	
3757595.90	0.00	0.00	0.00	
3757630.60	0.00	0.00	0.00	
3757665.30	0.00	0.00	0.00	
3757700.00	0.00	0.00	0.00	
3757734.70	0.00	0.00	0.00	
3757769.40	0.00	0.00	0.00	
3757804.10	0.00	0.00	0.00	
3757838.80	0.00	0.00	0.00	
3757873.50	0.00	0.00	0.00	
3757908.20	0.00	0.00	0.00	
3757942.90	0.00	0.00	0.00	
3757977.60	0.00	0.00	0.00	
3758012.30	0.00	0.00	0.00	

*** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23 ***
*** AERMET - VERSION 16216 *** ***
07:12:33 ***

PAGE 16
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)					
433570.40	433614.30	433658.20	433702.10	433746.00	433789.90	433833.80
433877.70	433921.60					

0.00	0.00							
3757422.40		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757457.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757491.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757526.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757561.20		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757595.90		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757630.60		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757665.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757700.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757734.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757769.40		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757804.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757838.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757873.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757908.20		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757942.90		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757977.60		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3758012.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							

▲ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction

07/20/23

*** AERMET - VERSION 16216 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)		X-COORD (METERS)					
434272.80	433965.50	434009.40	434053.30	434097.20	434141.10	434185.00	434228.90
434316.70							

3757318.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757353.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757387.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757422.40		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757457.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757491.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							
3757526.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00							

3757561.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757595.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757630.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757665.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757734.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757769.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757804.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757838.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757873.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757908.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757942.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3757977.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3758012.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						

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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*

*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	434360.60	434404.50	434448.40	X-COORD (METERS)
3757318.30	0.00	0.00	0.00	
3757353.00	0.00	0.00	0.00	
3757387.70	0.00	0.00	0.00	
3757422.40	0.00	0.00	0.00	
3757457.10	0.00	0.00	0.00	
3757491.80	0.00	0.00	0.00	
3757526.50	0.00	0.00	0.00	
3757561.20	0.00	0.00	0.00	
3757595.90	0.00	0.00	0.00	
3757630.60	0.00	0.00	0.00	
3757665.30	0.00	0.00	0.00	
3757700.00	0.00	0.00	0.00	
3757734.70	0.00	0.00	0.00	
3757769.40	0.00	0.00	0.00	
3757804.10	0.00	0.00	0.00	
3757838.80	0.00	0.00	0.00	
3757873.50	0.00	0.00	0.00	
3757908.20	0.00	0.00	0.00	
3757942.90	0.00	0.00	0.00	
3757977.60	0.00	0.00	0.00	
3758012.30	0.00	0.00	0.00	

5758012.50 | 0.00 0.00 0.00
↑ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction ***
07/20/23
*** AERMET - VERSION 16216 *** *** ***

07:12:33

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*** MODELOPTS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	RECEPTOR XR (METERS)	LOCATION YR (METERS)	DISTANCE (METERS)
TVY2T015	433965.5	3757804.1	-2.84
TVY2T016	433965.5	3757804.1	-0.51
TVY2T017	433965.5	3757804.1	0.30
TVY2T01Y	434097.2	3757769.4	0.14
TVY2T02R	434228.9	3757700.0	-1.99
TVY2T02S	434228.9	3757700.0	-2.39
TVY2T03V	434141.1	3757769.4	0.66
TVY2T04D	434053.3	3757804.1	-1.43
TVY2T04E	434053.3	3757804.1	-0.70
TVY2T050	434009.4	3757734.7	-0.16
TVY2T05P	434009.4	3757734.7	-0.05

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*** MODELOPTS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2016 1 1 1
AND END DATE: 2016 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA

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

```
1.54,   3.09,   5.14,   8.23,  10.80,  
*** AERMOD - VERSION  19191 ***    ***  Latitude PM10 Construction  
07/20/23  
*** AERMET - VERSION  16216 ***    ***  
07:12:33
```

*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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

Surface file: G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station 68\071823\AERMOD Met Version:
16216

Profile file: G:\My Drive\City of Chino Hills\22-81 Chino Valley Fire Station 68\071823\AERMOD
Surface format: FREE

Profile format: FREE

Surface station no.: 3179
Name: UNKNOWN
Year: 2012

Upper air station no.: 3190
Name: UNKNOWN
Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF TA
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0	
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0	
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0	
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0	
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0	
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0	
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0	
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0	
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0	
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0	
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0	
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0	
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0	
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0	
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0	
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0	
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0	
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0	
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74	1.00	1.43	37.	7.9	290.4	2.0	
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74	1.00	1.40	49.	7.9	287.0	2.0	
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74	1.00	1.57	26.	7.9	288.8	2.0	
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74	1.00	1.11	56.	7.9	284.9	2.0	
12	01	01	1	23	-11.5	0.141	-9.000	-9.000	-999.	127.	21.9	0.09	0.74	1.00	1.69	36.	7.9	282.0	2.0	
12	01	01	1	24	-16.9	0.172	-9.000	-9.000	-999.	171.	32.4	0.09	0.74	1.00	2.03	33.	7.9	279.9	2.0	

First hour of profile data											
YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	313.	0.73	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)
▲ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23
*** AERMET - VERSION 16216 *** ***
07:12:33

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL

TVY2T005 , TVY2T006 , TVY2T007 , TVY2T00I , TVY2T00J , TVY2T00K , TVY2T00L , TVY2T00M ,
TVY2T00N , TVY2T00O , TVY2T00P , TVY2T00Q , TVY2T00R , TVY2T00S , TVY2T00T , TVY2T00U ,
TVY2T00V , TVY2T00W , TVY2T00X , TVY2T00Y , TVY2T00Z , TVY2T010 , TVY2T011 , TVY2T012 ,

*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3

六

Y-COORD (METERS)	X-COORD (METERS)						
433877.70	433570.40	433614.30	433658.20	433702.10	433746.00	433789.90	433833.80
433921.60							

3757318.30		0.00004	0.00004	0.00004	0.00005	0.00005	0.00005	0.00006
0.00006		0.00006						
3757353.00		0.00004	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006
0.00007		0.00007						
3757387.70		0.00004	0.00005	0.00005	0.00005	0.00006	0.00007	0.00007
0.00008		0.00008						
3757422.40		0.00004	0.00005	0.00005	0.00006	0.00007	0.00007	0.00008
0.00009		0.00009						
3757457.10		0.00004	0.00005	0.00006	0.00006	0.00007	0.00008	0.00009
0.00010		0.00011						
3757491.80		0.00005	0.00005	0.00006	0.00007	0.00008	0.00009	0.00010
0.00011		0.00013						
3757526.50		0.00005	0.00005	0.00006	0.00007	0.00009	0.00010	0.00011
0.00013		0.00015						
3757561.20		0.00005	0.00006	0.00007	0.00008	0.00009	0.00011	0.00013
0.00015		0.00017						
3757595.90		0.00005	0.00006	0.00007	0.00008	0.00010	0.00012	0.00015
0.00018		0.00021						
3757630.60		0.00005	0.00006	0.00007	0.00008	0.00010	0.00013	0.00017
0.00021		0.00026						
3757665.30		0.00005	0.00006	0.00007	0.00009	0.00011	0.00014	0.00019
0.00025		0.00034						
3757700.00		0.00005	0.00006	0.00007	0.00009	0.00011	0.00015	0.00020
0.00030		0.00045						
3757734.70		0.00005	0.00006	0.00007	0.00009	0.00011	0.00015	0.00021
0.00033		0.00059						
3757769.40		0.00005	0.00006	0.00007	0.00009	0.00011	0.00015	0.00021
0.00034		0.00072						
3757804.10		0.00005	0.00006	0.00007	0.00008	0.00010	0.00014	0.00019
0.00031		0.00064						
3757838.80		0.00004	0.00005	0.00006	0.00007	0.00009	0.00012	0.00016
0.00024		0.00038						
3757873.50		0.00004	0.00005	0.00005	0.00007	0.00008	0.00010	0.00013
0.00017		0.00023						

3757873.50 | 0.00029 0.00034 0.00036 0.00034 0.00031 0.00027 0.00023
 0.00020 0.00017
 3757908.20 | 0.00018 0.00020 0.00021 0.00022 0.00021 0.00019 0.00017
 0.00016 0.00014
 3757942.90 | 0.00012 0.00013 0.00014 0.00014 0.00015 0.00014 0.00013
 0.00012 0.00011
 3757977.60 | 0.00009 0.00010 0.00010 0.00010 0.00011 0.00011 0.00010
 0.00010 0.00009
 3758012.30 | 0.00007 0.00008 0.00008 0.00008 0.00008 0.00008 0.00008
 0.00008 0.00008
 * *** AERMOD - VERSTON 19191 *** *** Latitude PM10 Construction

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL

*** INCLUDING SOURCE(S): TVY2T000, TVY2T001, TVY2T003, TVY2T004, ,
TVY2T005, TVY2T006, TVY2T007, TVY2T00I, TVY2T00J, TVY2T00K, TVY2T00L, TVY2T00M, ,
TVY2T00N, TVY2T00O, TVY2T00P, TVY2T00Q, TVY2T00R, TVY2T00S, TVY2T00T, TVY2T00U, ,
TVY2T00V, TVY2T00W, TVY2T00X, TVY2T00Y, TVY2T00Z, TVY2T010, TVY2T011, TVY2T012, ,
. . . ,
*** NETWORK ID: TVY2T05R ; NETWORK TYPE: GRIDCART ***
** CONC OF PM10 IN MICROGRAMS/M**3 **
Y-COORD | X-COORD (METERS)
(METERS) | 434360.60 434404.50 434448.40

```

3757318.30 | 0.00005 0.00004 0.00004
3757353.00 | 0.00005 0.00005 0.00004
3757387.70 | 0.00006 0.00005 0.00005
3757422.40 | 0.00006 0.00006 0.00005
3757457.10 | 0.00007 0.00006 0.00005
3757491.80 | 0.00008 0.00007 0.00006
3757526.50 | 0.00009 0.00008 0.00007
3757561.20 | 0.00011 0.00009 0.00007
3757595.90 | 0.00013 0.00010 0.00009
3757630.60 | 0.00015 0.00012 0.00010
3757665.30 | 0.00020 0.00014 0.00011
3757700.00 | 0.00024 0.00017 0.00013
3757734.70 | 0.00025 0.00018 0.00013
3757769.40 | 0.00023 0.00017 0.00013
3757804.10 | 0.00020 0.00016 0.00013
3757838.80 | 0.00017 0.00014 0.00012
3757873.50 | 0.00015 0.00012 0.00011
3757908.20 | 0.00012 0.00011 0.00009
3757942.90 | 0.00010 0.00009 0.00008
3757977.60 | 0.00009 0.00008 0.00007
3758012.30 | 0.00007 0.00007 0.00006

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07.12.33

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*** MODEL_OPTS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

... MODELLOFTS. RegDFAULT CONC LLEV NODRTDFLT NWLTDFLT RURAL ADJ_0

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): TVY2T000 , TVY2T001 , TVY2T003 , TVY2T004 ,
 TVY2T006 , TVY2T007 , TVY2T00I , TVY2T00J , TVY2T00K , TVY2T00L , TVY2T00M ,
 TVY2T000 , TVY2T00P , TVY2T00Q , TVY2T00R , TVY2T00S , TVY2T00T , TVY2T00U ,
 TVY2T00W , TVY2T00X , TVY2T00Y , TVY2T00Z , TVY2T010 , TVY2T011 , TVY2T012 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
434054.90	3757689.70	0.00060	434166.50	3757796.70	0.00070
434026.60	3757831.80	0.00094	433947.10	3757844.60	0.00046
433882.90	3757752.60	0.00037	433882.50	3757690.20	0.00030

*** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction
07/20/23 ***
*** AERMET - VERSION 16216 *** ***
07:12:33 ***

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*** MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID GRID-ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE
ALL	1ST HIGHEST VALUE IS	0.00217 AT (434009.40,	3757804.10,	0.00, 0.00, 0.00) GC
TVY2T05R	2ND HIGHEST VALUE IS	0.00202 AT (434009.40,	3757769.40,	0.00, 0.00, 0.00) GC
TVY2T05R	3RD HIGHEST VALUE IS	0.00194 AT (433965.50,	3757804.10,	0.00, 0.00, 0.00) GC
TVY2T05R	4TH HIGHEST VALUE IS	0.00179 AT (434097.20,	3757769.40,	0.00, 0.00, 0.00) GC
TVY2T05R	5TH HIGHEST VALUE IS	0.00172 AT (434053.30,	3757769.40,	0.00, 0.00, 0.00) GC
TVY2T05R	6TH HIGHEST VALUE IS	0.00170 AT (434009.40,	3757734.70,	0.00, 0.00, 0.00) GC
TVY2T05R	7TH HIGHEST VALUE IS	0.00168 AT (434185.00,	3757734.70,	0.00, 0.00, 0.00) GC
TVY2T05R	8TH HIGHEST VALUE IS	0.00168 AT (433965.50,	3757769.40,	0.00, 0.00, 0.00) GC
TVY2T05R	9TH HIGHEST VALUE IS	0.00161 AT (434053.30,	3757804.10,	0.00, 0.00, 0.00) GC
TVY2T05R	10TH HIGHEST VALUE IS	0.00144 AT (434141.10,	3757769.40,	0.00, 0.00, 0.00) GC

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

↑ *** AERMOD - VERSION 19191 *** *** Latitude PM10 Construction

07/20/23
*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 57 Calm Hours Identified

A Total of 61 Missing Hours Identified (0.69 Percent)

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

***** WARNING MESSAGES *****
ME W186 900 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 900 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

ATTACHMENT C

Health Risk Calculations (DPM Fire Truck Operations)

Air Quality Health Risk Calculations											
		Chino Hills Fire - Receptor 1									
Annual Concentration ($\mu\text{g}/\text{m}^3$)		0.0006									
Based on Risk Assessment Guidelines - Guidance											
Manual for Preparation of Health Risk Assessments - February 2015											
Unit Risk Factors											
(https://oehha.ca.gov/media/CPFs042909.pdf)											
Duration (Years)	70										
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70					
Cair (annual)	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006					
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290					
A (Default is 1)	1	1	1	1	1	1					
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96					
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001					
Dose-inh	0.00000021	0.00000063	0.00000050	0.00000043	0.00000019	0.00000017					
Exposure Duration (years)	70										
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1					
Age Sensitivity Factor	10	10	3	3	1	1					
ED	0.25	2	7	14	14	54					
AT	70	70	70	70	70	70					
FAH	0.85	0.85	0.72	0.72	0.73	0.73					
Risk for Each Age Group	6.94358E-09	1.67723E-07	1.17834E-07	2.03918E-07	3.09894E-08	1.03474E-07					
per million	0.0069	0.1677	0.1178	0.2039	0.0310	0.1035					
Cancer Risk Per Million 9-years	0.293										
Cancer Risk Per Million 30-years	0.410										
Cancer Risk Per Million 70-years	0.482										

Air Quality Health Risk Calculations Chino Hills Fire - Receptor 2 [School]						
Annual Concentration (µg/m³)	0.0007					
Based on Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments - February 2015 Unit Risk Factors (https://oehha.ca.gov/media/CPFs042909.pdf)						
Duration (Years)	70					
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual)	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000024	0.00000073	0.00000058	0.00000050	0.00000023	0.00000019
Exposure Duration (years)	70					
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	2	7	14	14	54
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	8.10084E-09	1.95677E-07	1.37473E-07	2.37904E-07	3.61543E-08	1.2072E-07
per million	0.0081	0.1957	0.1375	0.2379	0.0362	0.1207
Cancer Risk Per Million 9-years	0.341					
Cancer Risk Per Million 30-years	0.478					
Cancer Risk Per Million 70-years	0.562					

Air Quality Health Risk Calculations												
Chino Hills Fire - Receptor 3												
Annual Concentration (µg/m³)	0.00094											
Based on Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments - February 2015												
Unit Risk Factors (https://oehha.ca.gov/media/CPFs042909.pdf)												
Duration (Years)	70											
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70						
Cair (annual)	0.00094	0.00094	0.00094	0.00094	0.00094	0.00094						
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290						
A (Default is 1)	1	1	1	1	1	1						
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96						
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001						
Dose-inh	0.00000033	0.00000098	0.00000078	0.00000067	0.00000030	0.00000026						
Exposure Duration (years)	70											
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1						
Age Sensitivity Factor	10	10	3	3	1	1						
ED	0.25	2	7	14	14	54						
AT	70	70	70	70	70	70						
FAH	0.85	0.85	0.72	0.72	0.73	0.73						
Risk for Each Age Group	1.08783E-08	2.62766E-07	1.84607E-07	3.19471E-07	4.855E-08	1.62109E-07						
per million	0.0109	0.2628	0.1846	0.3195	0.0486	0.1621						
Cancer Risk Per Million 9-years	0.458											
Cancer Risk Per Million 30-years	0.642											
Cancer Risk Per Million 70-years	0.755											

Air Quality Health Risk Calculations						
Chino Hills Fire - Receptor 4						
Annual Concentration (µg/m³)						
0.00046						
Based on Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments - February 2015						
Unit Risk Factors (https://oehha.ca.gov/media/CPFs042909.pdf)						
Duration (Years)	70					
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual)	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000016	0.00000048	0.00000038	0.00000033	0.00000015	0.00000013
Exposure Duration (years)	70					
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	2	7	14	14	54
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group per million	5.32341E-09 0.0053	1.28588E-07 0.1286	9.03397E-08 0.0903	1.56337E-07 0.1563	2.37585E-08 0.0238	7.93302E-08 0.0793
Cancer Risk Per Million 9-years	0.224					
Cancer Risk Per Million 30-years	0.314					
Cancer Risk Per Million 70-years	0.370					

Air Quality Health Risk Calculations												
Chino Hills Fire - Receptor 5												
Annual Concentration (µg/m³)	0.00037											
Based on Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments - February 2015												
Unit Risk Factors (https://oehha.ca.gov/media/CPFs042909.pdf)												
Duration (Years)	70											
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70						
Cair (annual)	0.00037	0.00037	0.00037	0.00037	0.00037	0.00037						
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290						
A (Default is 1)	1	1	1	1	1	1						
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96						
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001						
Dose-inh	0.00000013	0.00000039	0.00000031	0.00000026	0.00000012	0.00000010						
Exposure Duration (years)	70											
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1						
Age Sensitivity Factor	10	10	3	3	1	1						
ED	0.25	2	7	14	14	54						
AT	70	70	70	70	70	70						
FAH	0.85	0.85	0.72	0.72	0.73	0.73						
Risk for Each Age Group	4.28187E-09	1.03429E-07	7.26645E-08	1.25749E-07	1.91101E-08	6.3809E-08						
per million	0.0043	0.1034	0.0727	0.1257	0.0191	0.0638						
Cancer Risk Per Million 9-years	0.180											
Cancer Risk Per Million 30-years	0.253											
Cancer Risk Per Million 70-years	0.297											

Air Quality Health Risk Calculations Chino Hills Fire - Receptor 6						
Annual Concentration (µg/m³)	0.0003					
Based on Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments - February 2015 Unit Risk Factors (https://oehha.ca.gov/media/CPFs042909.pdf)						
Duration (Years)	70					
Age of Person Exposed (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual)	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Breathing Rate per agegroup BR/BW	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000010	0.00000031	0.00000025	0.00000021	0.00000010	0.00000008
Exposure Duration (years)	70					
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	2	7	14	14	54
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	3.47179E-09	8.38615E-08	5.89172E-08	1.01959E-07	1.54947E-08	5.17371E-08
per million	0.0035	0.0839	0.0589	0.1020	0.0155	0.0517
Cancer Risk Per Million 9-years	0.146					
Cancer Risk Per Million 30-years	0.205					
Cancer Risk Per Million 70-years	0.241					

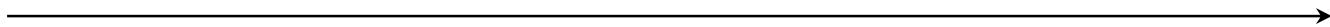
ATTACHMENT D

Cumulative Project List

AQ Attachment D – AS OF 08-25-2023

LOCATION AND DESCRIPTION OF CUMULATIVE PROJECTS

No.	Cumulative Project	Location/Address	Description
1.	Country Club Villas	On Pomona Rincon Road between Wallace Ave and Los Serranos Road	70 DU condominium project <u>Entitled/To Be Constructed:</u> Phase 3: 18 DU remaining
2.	Vila Borba	West and east of Butterfield Ranch Road near Pine Avenue	<u>Entitled:</u> Tract 16413 19 DU single family <u>Entitled:</u> Tract 16414 - 220 DU multifamily units
3.	The Reserve at Chino Hills	Reserve at Chino Hills Apartment Complex	<u>Entitled/Under Construction:</u> 42 DU multifamily
4.	The Commons	South of Chino Hills Parkway, east of Ramona Avenue and north of SR-71	533,675 SF existing shopping center <u>Built/Unoccupied:</u> 63,300 SF of floor area for Anchor tenant <u>Entitled/Unbuilt:</u> 53,500 SF of floor area
5.	Stonefield Development	Northwest of Carbon Canyon Road and east of Fairway Drive	<u>Entitled:</u> 28 DU single-family
6.	Morningfield Estates and Loving Savior Master Plan Addendum	South of Morningfield Drive, west of Peyton Drive, north of Chino Hills Parkway, adjacent to San Bernardino County Flood Channel	<u>Entitled:</u> 7-Lot Subdivision with semi- custom single-family homes, plus 3 classrooms/71 student addition to the Lutheran School
7.	Coptic Orthodox Church	East side of Peyton Drive, north of the Chino Creek Drainage Channel and south of the Chino Valley Community Church property	<u>Entitled/Under Construction:</u> 14,695 SF multi-purpose room, 8,645 SF Sanctuary and 555 SF Bookstore
8.	Buddhist Temple of Chino Hills	Northeast of Chino Hills Parkway and Rustic Drive	<u>Entitled/Under Construction:</u> 23,400 SF Buddhist temple expansion



LOCATION AND DESCRIPTION OF CUMULATIVE PROJECTS

No.	Cumulative Project	Location/Address	Description
9.	Paradise Ranch (T20286)	Canyon Hills Road, north of Hillcrest Development	<i>Entitled:</i> 50 DU Single Family
10.	Rancho Cielito	48.37 acres is generally located north of Los Serranos Boulevard, south of Lakeview Drive and east of Pipeline Avenue	<i>Entitled:</i> 354 residential apartment units, consisting of seven (7) two-story and seven (7) three-story residential carriage buildings, ten (10) three-story residential buildings and two (2) clubhouses.
11.	Go Storeit	Southeast of Monte Vista and Chino Hills Parkway	<i>Entitled:</i> 115,740-square foot self-storage facility
12.	Biz Park (formerly Heritage Professional Center)	Pomona Rincon Road (south of The Rincon)	<i>Entitled:</i> 141,650 sq. ft. office/retail, 46,000 sq. ft. warehouse – 187,650 sq. ft. of Building
13.	Western Hills Residences	Fairway Drive and Carbon Canyon Road	<i>Proposed:</i> 187 DU Multi Family
14.	Shady View	Terminus of Shady View Drive	<i>Entitled:</i> 159 DU Single Family
15.	Goltec	Yorba Avenue, adjacent to Los Serranos Golf Course Clubhouse parking lot	<i>Proposed:</i> 159 DU Single Family
16.	Prime Carwash	Chino Hills Parkway and Ramona Avenue	<i>Proposed:</i> 6,007 sq. ft. car wash
17.	Commercial Building	Pomona Rincon Road	<i>Proposed:</i> 8,819 sq. ft. building for tutoring, office, and commercial
18.	Costco Expansion	Peyton Drive within Crossroads Marketplace	<i>Entitled:</i> 32 pump gas station relation, and 19,498 sq. ft. building expansion
19.	Canyon Estates	Terminus of Soquel Canyon Parkway	<i>Proposed:</i> 165 DU single-family and 163 multi-family

