



**Inland Empire Technical Trade Center
Buildings 1A & 1B
Construction Health Risk Assessment**

**City of Jurupa Valley, California
April 3, 2026**



Inland Empire Technical Trade Center Buildings 1A & 1B Construction Health Risk Assessment

City of Jurupa Valley, California

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1.0 Introduction

1.1 Purpose of Report & Study Objectives

The purpose of this Health Risk Assessment (HRA) is to evaluate the potential health risks generated by the construction of the Inland Empire Technical Trade Center (IETTC) Buildings 1A & 1B Project (hereinafter referred to as "project").

This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.). The methodology follows the State of California Office of Environmental Health Hazard Assessment (OEHHA), California Air Resources Board (CARB), and the South Coast Air Quality Management District (SCAQMD) recommendations for quantification of emissions and evaluation of potential impacts.

1.2 Site Location & Project Description

The proposed project site is located at 6464 33rd Street, in the City of Jurupa Valley. The 9.6-acre project site is currently vacant aside from existing pavement. **Exhibit A** shows the location map of the proposed project site.

The proposed project consists of demolishing the existing pavement and constructing two educational buildings totaling approximately 121,000 square feet and an associated parking lot that will be operated by the Riverside Community College District.

Construction activities are expected to consist of demolition, site preparation, grading, building construction, paving, and architectural coating. No import or export of earthwork material is expected to be required during project construction.

The proposed project site plan is provided in **Exhibit B**.

1.3 Sensitive Receptors

Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases.

For CEQA purposes, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours or longer, such as residences, hospitals, and schools (etc.), as described in the Localized Significance Threshold Methodology (SCAQMD 2008a, page 3-2). There are several sensitive land uses adjacent to the project site, including the following.

A project site location map, including sensitive receptor locations, is provided in **Exhibit A**.

- Receptor-1** Existing residential land uses located to the northwest of the proposed project site. The nearest residential homes located at Receptor-1 (marked as circle "1" on **Exhibit A**) are located approximately 45 feet northwest of the northwestern boundary of the project site.
- Receptor-2** Existing residential land uses located to the northeast of the proposed project site. The nearest residential homes located at Receptor-2 (marked as circle "2" on **Exhibit A**) are located approximately 45 feet northeast of the northeastern boundary of the project site.
- Receptor-3** Existing Jurupa Hills Post Acute Medical Facility located to the northeast of the proposed project site. The nearest point of Receptor-3 (marked as circle "3" on **Exhibit A**) is located approximately 225 feet northeast of the northeastern boundary of the proposed project site.
- Receptor-4** Existing residential land uses located to the east of the proposed project site. The nearest residential homes located at Receptor-4 (marked as circle "4" on **Exhibit A**) are located approximately 925 feet east of the eastern boundary of the proposed project site.
- Receptor-5** Existing residential land uses located to the south-southeast of the proposed project site. The nearest residential home located at Receptor-5 (marked as circle "5" on **Exhibit A**) is located approximately 70 feet southeast of the southeastern boundary of the proposed project site.

1.4 Summary of Analysis Results

The analysis results indicate that the highest unmitigated construction-related diesel particulate matter (DPM) exposure would occur at Receptor-4.

At this location, the maximum estimated unmitigated construction-related cancer risk is approximately 4.6111 in one million, which is well below the SCAQMD significance threshold of 10. Therefore, **construction-related cancer risk impacts would be less than significant.**

The estimated unmitigated non-cancer chronic hazard index at this location is approximately 0.0062, which is well below the SCAQMD significance threshold of 1.0. Therefore, **unmitigated construction-related non-cancer health risk impacts would be less than significant.**

Finally, the unmitigated construction-related cancer burden at this location is approximately 0.0047, which does not exceed the SCAQMD significance threshold of 0.5. Therefore, **unmitigated construction-related cancer burden impacts would be less than significant.**

1.5 Project Design Features (DF)

The following design features include several standard rules and requirements, best practices and building code requirements for reducing TAC emissions. Design features are assumed to be integrated into the project design and required as part of the conditions of approval of the project. Design features are not considered to be mitigation under CEQA.

Construction Design Features

- DF-1** Construction equipment shall be maintained in proper tune.
- DF-2** All construction vehicles shall be prohibited from excessive idling. Excessive idling is defined as five (5) minutes or longer.
- DF-3** Minimize the simultaneous operation of multiple construction equipment units, to the maximum extent feasible.
- DF-4** The use of heavy construction equipment and earthmoving activity shall be suspended during Air Alerts when the Air Quality Index reaches the "Unhealthy" level.
- DF-5** Establish staging areas for the construction equipment that are as distant as possible from adjacent residential homes.



Legend

- ① = Sensitive Receptor Locations
- = Project Site Boundary

Exhibit A
Location Map



Exhibit B Site Plan

2.0 Regulatory Setting

The following section provides background information on toxic air contaminants (TACs) and the applicable federal, state, and local regulations for controlling them.

2.1 Description of Toxic Air Contaminants (TACs)

The following section describes the toxic air contaminants (TACs) of concern related to the project. The California Health and Safety Code (California State Assembly, 1983) defines a TAC as an air pollutant that can cause or contribute to increased mortality or serious illness or pose a present or potential hazard to human health. Under federal law, any substance listed as a hazardous air pollutant under Section 112(b) of the Clean Air Act (42 U.S.C. Section 7412[b]) is also considered a TAC. In California, the California Environmental Protection Agency (Cal/EPA), through the California Air Resources Board (CARB), may identify a substance as a TAC if it determines that the substance may cause or contribute to serious health effects.

To date, CARB has identified over 200 compounds as TACs, several of which are subject to control measures due to their elevated health risks and potential for effective regulation. Unlike criteria air pollutants, which have established ambient air quality standards and defined threshold levels, there is no safe level of exposure for many carcinogenic TACs. Even low concentrations may pose health risks, particularly for long-term exposures.

The majority of estimated health risk from TACs is attributed to a small number of compounds, with diesel particulate matter (DPM) representing the most significant contributor statewide. DPM consists of fine carbon particles coated with toxic organic compounds, and its small size allows it to penetrate deep into the lungs. In 1998, CARB identified DPM as a TAC based on evidence linking diesel exhaust exposure to lung cancer and other adverse health outcomes. In 2012, the World Health Organization's International Agency for Research on Cancer (IARC) classified diesel engine exhaust as "carcinogenic to humans," reinforcing CARB's earlier determination.

In addition to DPM, other TACs that contribute to overall health risk in California include benzene, 1,3-butadiene, and formaldehyde. These pollutants, while typically present at low ambient concentrations, are associated with increased cancer risk. CARB and the South Coast Air Quality Management District (SCAQMD) maintain air monitoring networks throughout the South Coast Air Basin (SCAB) to assess ambient TAC concentrations and evaluate potential health risks. DPM is not directly measured in ambient air but is estimated using fine particulate matter data and source apportionment studies. According to CARB, diesel engine emissions are estimated to account for approximately 70 percent of the known statewide cancer risk attributable to TAC exposure.

2.2 Federal Regulation of TACs

At the federal level, toxic air contaminants—referred to as hazardous air pollutants (HAPs)—are regulated under the Clean Air Act (CAA), primarily through Section 112. The U.S. Environmental

Protection Agency (EPA) has identified 188 HAPs known or suspected to cause cancer or other serious health effects. To control emissions of these pollutants, the EPA establishes National Emission Standards for Hazardous Air Pollutants (NESHAPs), which apply to specific industrial source categories. These standards mandate the implementation of Maximum Achievable Control Technology (MACT) to reduce emissions effectively.

The EPA regularly reviews and updates NESHAPs to incorporate advancements in emission control technologies and to address residual risks. Compliance with these federal regulations is enforced through permitting processes and regular inspections, ensuring that facilities adhere to established emission limits and implement necessary control technologies.

2.3 State Regulation of TACs

The State of California's regulatory authority is distributed across several agencies and legislative programs that support health risk evaluations and emissions control, as discussed in the following sections.

2.3.1 State Agencies and Guidance Documents

2.3.1.1 California Air Resources Board (CARB)

The California Air Resources Board (CARB) is a department within the California Environmental Protection Agency that oversees State of California air quality programs. CARB's responsibilities include setting the State's air quality standards, identifying pollutants that pose the greatest health risks, measuring pollution reduction progress, researching causes, effects, and potential solutions of air pollution problems, and determining the costs and benefits of pollution controls.

CARB is also responsible for identifying TACs under the Toxic Air Contaminant Identification and Control Act (AB 1807, 1983) and establishing Airborne Toxic Control Measures (ATCMs) to reduce emissions.

CARB published the *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB Handbook, 2005) and the *Technical Advisory: Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways* (2017) to serve as reference guides for assessing and mitigating potential air pollution impacts from new projects in the land use decision making process. Per the CARB Handbook, both respiratory and other non-cancer health effects have been linked to high-traffic roadways. Furthermore, research indicates that diesel exhaust and other carcinogenic chemicals from vehicles significantly contribute to the overall cancer risk from airborne toxins in California. The CARB Handbook advises planning agencies to consider how the layout of new developments can minimize population exposure and risk. For instance, avoiding the placement of new sensitive land uses within 500 feet of freeways, urban roads with 100,000 or more vehicles per day, or rural roads with 50,000 or more vehicles per day can help reduce exposure and risk.

2.3.1.2 Office of Environmental Health Hazard Assessment (OEHHA)

OEHHA is the lead agency for developing health-based guidance values used in risk assessments, including Reference Exposure Levels (RELs) for non-cancer effects and Cancer Potency Factors (CPFs) for carcinogens. These values are central to evaluating TAC risks in both regulatory and CEQA contexts.

In partnership with CARB, OEHHA developed the *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (2015). This manual aids in implementing the Air Toxics Hot Spots Program (Health and Safety Code Section 44360). It details health effect values, exposure pathways (such as breathing rates), and a tiered approach for conducting HRAs based on the latest scientific and policy insights. The manual's goals include addressing children's health concerns, updating risk assessment practices, and standardizing risk assessment procedures.

2.3.1.3 California Air Pollution Control Officers Association (CAPCOA)

In 2009, CAPCOA released guidelines on evaluating health risks associated with proposed land use projects. These guidelines focus on the acute, chronic, and cancer impacts of sources regulated by the California Environmental Quality Act (CEQA). They provide recommendations on when a project should undergo further risk evaluation, how to perform Health Risk Assessments (HRAs), how to involve the public, what to do with the HRA results, and what mitigation measures might be suitable for different land use projects.

2.3.2 Legislative Framework for TAC and Risk Programs

2.3.2.1 Toxic Air Contaminant Identification and Control Act (AB 1807)

California's Air Toxics Program, established under the Toxic Air Contaminant Identification and Control Act (AB 1807), aims to reduce public exposure to harmful airborne substances through a two-step process: risk identification and risk management. In the first step, CARB and OEHHA assess the health risks and exposure potential of candidate substances to determine if they should be classified as Toxic Air Contaminants (TACs), with public input and scientific review playing key roles. If a substance is designated as a TAC, CARB then collaborates with local air districts, industry, and the public to develop appropriate control measures based on emissions data, exposure levels, health risks, and control technology feasibility. As of now, CARB has identified around 200 TACs and implemented 26 control measures targeting both mobile and stationary sources.

2.3.2.2 Air Toxics Hot Spots Act (AB 2588)

The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588), enacted in 1987, mandates that stationary sources report the types and quantities of specific air pollutants they routinely emit. Its primary objectives are to gather emissions data, identify facilities with localized air quality impacts, assess associated health risks, notify nearby residents of significant risks, and ensure those risks are mitigated to acceptable levels.

2.3.2.3 Community Air Protection Program (AB 617)

AB 617 (2017) mandates annual emissions reporting for certain stationary sources and directs CARB to develop community-scale air monitoring in high priority locations. In response to AB 617, CARB established the Community Air Protection Program. The focus of the Program is to reduce exposure to communities most impacted by air pollution. The program focuses on both criteria air pollutants and TACs, with real-time data made available to the public.

2.4 Regional Regulation of TACs

2.4.1 South Coast Air Quality Management District (SCAQMD)

The South Coast Air Quality Management District (SCAQMD) is the regional agency responsible for regulating air quality in the South Coast Air Basin, encompassing Orange County and the non-desert regions of Los Angeles, Riverside, and San Bernardino counties. SCAQMD develops and enforces rules to reduce emissions from stationary sources, administers permitting programs, and implements air quality management plans to achieve compliance with federal and state air quality standards.

2.4.1.1 SCAQMD Health Risk Assessment (HRA) Procedures

The SCAQMD published the most recent version of their *South Coast Air Quality Management District Risk Assessment Procedures for Rules 1401, 1401.1, and 212* (SCAQMD Guidelines) in October 2024. These guidelines describe the Risk Assessment Procedures, pursuant to Rule 1401(e)(1), for preparing HRAs. The SCAQMD Guidelines are intended to be a “living” document and contain required assumptions, incorporating OEHHA guidance, for risk assessment calculations.

2.4.1.2 Relevant SCAQMD Rules and Regulations

The SCAQMD Rules applicable to TAC emissions include, but are not limited to, the following:

- **Rule 1401 - New Source Review of Toxic Air Contaminants.** Rule 1401 sets risk-based thresholds for new, relocated, or modified equipment that emits TACs. It aims to limit maximum individual cancer risk (MICR), cancer burden, and noncancer hazard indices (acute and chronic) from these sources. The rule applies to permit applications submitted on or after June 1, 1990, including previously unpermitted equipment if the permit to operate was filed after that date. It also covers certain equipment exempt from written permits under Rule 219 if associated health risks exceed specified levels.
- **Rule 1401.1 - Requirements for New and Relocated Facilities Near Schools.** Rule 1401.1 provides enhanced health protections for children by regulating toxic air emissions from new or relocated facilities near schools or schools under construction. It does not apply to existing facilities. Permit applications for such facilities are evaluated based on this rule, the toxic air contaminant list in Rule 1401, and current risk assessment procedures at the time the application is deemed complete.

- **Rule 1402 - Control of Toxic Air Contaminants from Existing Sources.** Rule 1402 aims to reduce health risks from toxic air emissions at existing facilities by establishing limits for maximum individual cancer risk (MICR), cancer burden, and noncancer hazard indices (acute and chronic). Facilities exceeding specified risk levels must prepare Risk Reduction Plans to comply with health thresholds. The rule requires submission of Air Toxics Inventory Reports, Health Risk Assessments, and public notifications, and applies to facilities identified under the Hot Spots Act or those with emissions potentially exceeding the Notification Risk Level.
- **Rule 212 - Standards for Approving Permits and Issuing Public Notice.** Rule 212 outlines the criteria under which the Executive Officer may approve or deny permits for equipment that emits or controls air contaminants. Permits are denied if equipment is not expected to comply with air quality rules or is not constructed as approved. Public notification is required at least 30 days in advance for certain new or modified projects, especially those near schools (within 1,000 feet), or those with emission increases exceeding specified thresholds or toxic risk levels. The rule also details procedures for public notification distribution, appeal timelines, and responsibilities of applicants in informing the community. It applies retroactively to unpermitted equipment and facilities with emissions triggering risk-based thresholds.

3.0 Environmental Setting

The following section provides background information on the existing location and environmental setting in the vicinity of the proposed project site.

3.1 South Coast Air Basin (SCAB)

The proposed project site is located in the City of Jurupa Valley, California, within the South Coast Air Basin (SCAB), which falls under the jurisdiction of the SCAQMD. The SCAB includes all of Orange County and parts of Los Angeles, Riverside, and San Bernardino counties. Air quality in the basin is influenced by dominant airflows, topography, atmospheric inversions, location, season, and time of day.

3.2 Local Climate and Meteorology

Dominant airflows are the primary mechanism for the transport and dispersion of air pollution within the SCAB. The San Gabriel, San Bernardino, and San Jacinto Mountains border the northern and eastern extents of the air basin and provide a natural barrier to the dispersion of air contaminants.

The SCAQMD maintains 26 meteorological data collection stations throughout the District's jurisdiction. Meteorological data from the five most recent years that meet the established completeness criteria is processed by the SCAQMD for use in dispersion modeling. Other information provided includes station details, surface characteristics, and temperature ranges.

The nearest meteorological data collection station to the proposed project site is the Riverside Municipal Airport (KRAL) station. For the purposes of this analysis, meteorological data for the KRAL station collected in the years 2019 through 2023 are used to represent local weather conditions and prevailing winds. **Exhibit C** shows the wind rose plot from data measured at this station and the wind patterns for the project area.

In addition to the above-mentioned SCAQMD meteorological data stations, the Western Regional Climate Center (WRCC) maintains weather monitoring stations throughout Southern California and parts of Arizona and Nevada. The nearest WRCC weather station to the proposed project site is the Riverside Fire Station, California (047470) station. Climatological data from this station is summarized in **Table 3-1**.

Table 3-1 | Meteorological Summary¹

Month	Temperature (°F)			Mean Precipitation (inches)
	Max.	Min.	Mean	
January	66.8	39.1	53.0	2.01
February	68.3	41.1	54.7	2.20
March	71.3	43.2	57.3	1.84
April	75.6	46.7	61.2	0.77
May	80.0	51.1	65.6	0.23
June	87.0	54.8	70.9	0.05
July	94.2	59.5	76.9	0.04
August	94.4	59.6	77.0	0.13
September	90.9	56.2	73.6	0.19
October	82.9	50.0	66.5	0.44
November	74.5	42.8	58.7	0.84
December	67.8	39.2	53.5	1.46
Annual	79.5	48.6	64.1	10.21

¹ Source: Western Regional Climate Center. Averages derived from measurements recorded between 1893 and 2016 at the Riverside Fire Station, CA (047470) monitoring station.

3.3 Local Background Health Risks

The project site is located within a region that has been characterized for existing ambient health risks as part of the SCAQMD’s Multiple Air Toxics Exposure Study V (MATES-V). MATES-V is the latest iteration of the SCAQMD’s monitoring and modeling effort conducted to assess long-term population exposure to air toxics in the SCAB. The study evaluates both cancer and non-cancer health risks based on regional ambient air quality data and dispersion modeling.

Table 3-2 below shows the regional lifetime cancer risk and non-cancer chronic hazard index reported by MATES-V for the project site area. These values are compared to the corresponding figures for the County of Orange as a whole. The values shown in **Table 3-2** reflect continuous exposure over a 70-year lifetime to existing background levels of TACs in their respective regions.

As shown in the table below, the lifetime cancer risk in the project area is approximately 413 per one million, and the non-cancer chronic hazard index is approximately 6.4. In comparison, the average lifetime cancer risk for the SCAB portion of Riverside County is reported at approximately 332 per one million.

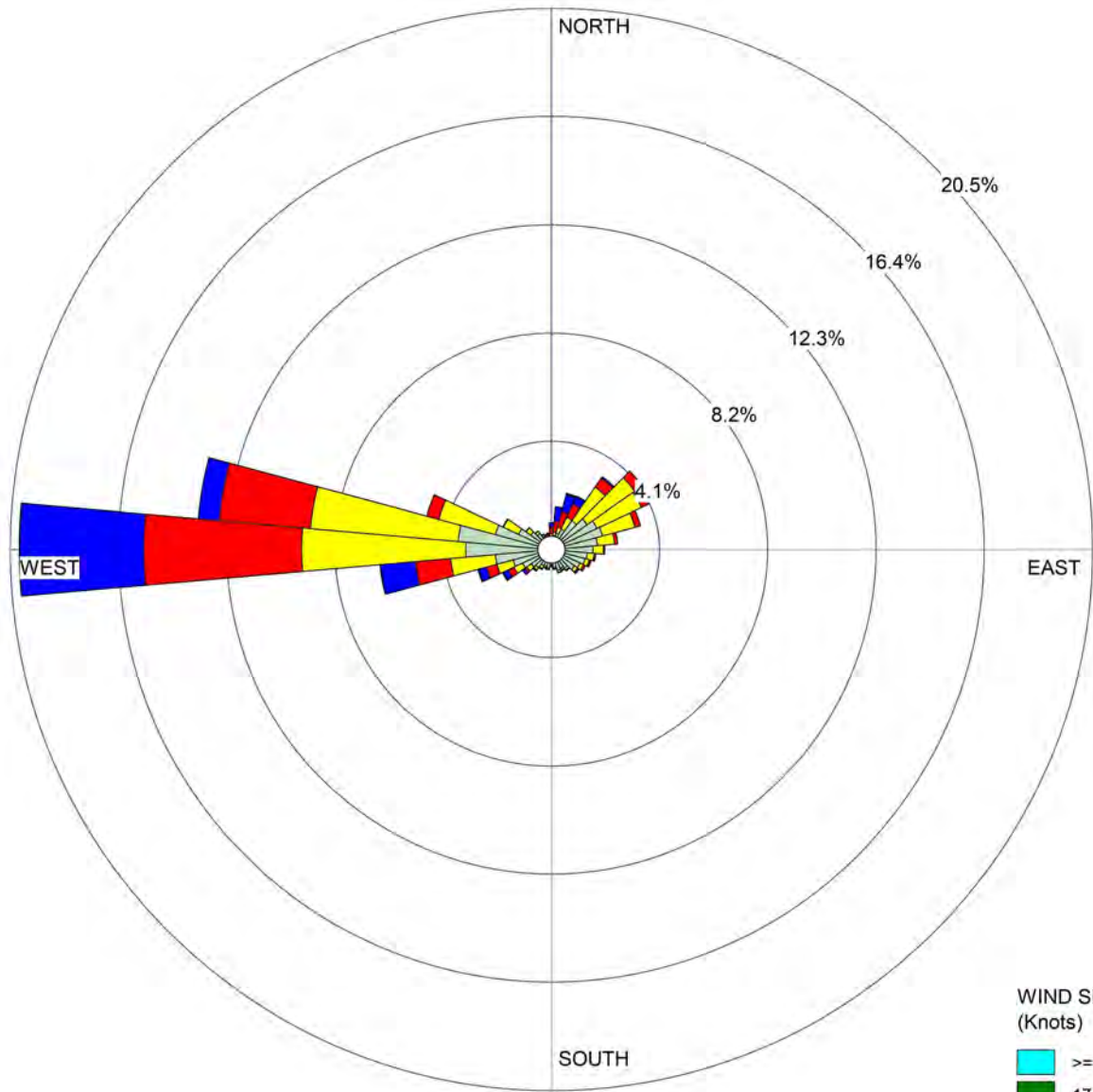
Table 3-2 | Regional Health Risk Estimates

Region/Area	Lifetime Cancer Risk (per one million)	Chronic Non-Cancer Hazard Index
Project Vicinity ¹	413	6.4
Orange County ²	332	Not Reported

¹ Source: MATES-V Online Data Visualization Tool. [MATES Data Visualization](#).

² Source: SCAQMD. Multiple Toxics Exposure Study in the South Coast AQMD Final Report, Table 4-8: County-Wide Population-Weighted Air Toxics Cancer Risk for Inhalation-Only and for Multiple-Pathway Factors (August 2021).

It should be noted that the previous MATES-IV version of the study, released in 2015, estimated a higher cancer risk of approximately 792.32 per one million for the project site vicinity. The reduction between MATES-IV and MATES-V is largely attributed to mobile source regulations, cleaner technology adoption, and fleet turnover.



WIND SPEED (Knots)
 >= 21.58
 17.11 - 21.58
 11.08 - 17.11
 7.00 - 11.08
 4.08 - 7.00
 0.97 - 4.08
 Calms: 1.94%

Exhibit C

Wind Rose Plot - Riverside Municipal Airport (KRAL) Station

INLAND EMPIRE TECHNICAL TRADE CENTER BUILDINGS 1A & 1B
 CONSTRUCTION HEALTH RISK ASSESSMENT (HRA) // CITY OF ANAHEIM, CA
 0094-2025-16

4.0 Modeling Parameters and Assumptions

The AERMOD Gaussian Plume Air Dispersion Model Version 13.0.0 (AERMOD) was used to calculate TAC emissions from the construction of the project. AERMOD is a regulatory air quality dispersion model developed by the American Meteorological Society and the Environmental Protection Agency (EPA). It is used to estimate the dispersion of air pollutants from stationary and mobile sources, taking into account various factors such as terrain, meteorology, and the nature of the pollutant sources. The assumptions and modeling parameters used for this analysis are described below.

For this analysis, emissions rates input into AERMOD were derived from the California Emissions Estimator Model (CalEEMod) outputs provided by the *Inland Empire Technical Trade Center (IETTC) Buildings 1A & 1B Air Quality, Greenhouse Gas, and Energy Impact Study (Air Quality Study)*, prepared by RK. CalEEMod is the state-approved tool for estimating criteria pollutant and TAC emissions from construction and operational activities, based on activity type, equipment fleet, and duration of use. Exhaust PM₁₀ emissions reported by CalEEMod were used as a surrogate for diesel particulate matter (DPM). These modeled emission rates served as inputs to AERMOD, which then calculated dispersion and receptor-specific concentrations for the health risk assessment.

The CalEEMod emissions outputs from the project's Air Quality Study are provided in **Appendix A**.

4.1 Construction Assumptions

Construction activities are expected to consist of demolition, site preparation, grading, building construction, paving, and architectural coating. No import or export of earthwork materials is expected during construction.

Diesel particulate matter (DPM) emissions will be generated from onsite construction equipment throughout all phases of construction. In addition, offsite DPM emissions will result from haul truck trips associated with demolition activities. The methodology used to estimate both onsite and offsite construction-related DPM emissions is described below.

4.1.1 Offroad Equipment Emissions Assumptions

Weighted annual average DPM emission rates were developed from CalEEMod outputs for each year of construction. The project's construction schedule and estimated DPM emissions are based on the *Inland Empire Technical Trade Center Buildings 1A & 1B Air Quality, Greenhouse Gas, and Energy Impact Study, Appendix A - CalEEMod Emissions Outputs*. The PM₁₀ exhaust emissions reported in the Air Quality Study were utilized to calculate weighted averages for each year of construction. These weighted averages were applied as surrogates for DPM emissions within the air dispersion model.

Table 4-1 summarizes the weighted average PM₁₀ exhaust emission factors by construction year.

Table 4-1 | Annual Construction Emissions Factors by Phase

Exposure Period	Year of Construction	Annual Offroad DPM Emissions (tons/year)
Third Trimester	1-2	0.0265256
Infant	2-3	0.0158738

The emissions shown in **Table 4-1** above are represented in the model as an area source equal to the size of the project’s construction area within the air dispersion model. A representative release height of 3 meters was assumed to reflect the average exhaust elevation of typical construction equipment.

The location of modeled construction-related emissions is shown in **Exhibit D**. Emission factor calculation worksheets are provided in **Appendix B**.

4.1.2 Offsite Motor Vehicle Emissions Assumptions

During construction, the project proposes to demolish and remove approximately 9.6 acres of existing hardscape from the proposed project site. DPM emissions associated with off-site hauling trips during demolition were estimated based on the default hauling trip assumptions provided in CalEEMod.

Offsite vehicle source emissions were calculated using the following key inputs:

- Daily Truck Trips - the number of hauling trips per day;
- Vehicle Fleet Mix - the percentage breakdown of vehicle types (i.e., trucks by axle number); and
- Emission Factors - the amount of emissions generated as a function of vehicle type, vehicle speed, and pollutant for a given time or distance.

Consistent with default CalEEMod vehicle fleet mix assumptions, it is assumed that all hauling trips associated with project construction will consist of heavy-heavy duty (HHDT) vehicles. **Exhibit D** shows the locations of modeled operational roadway emissions sources.

Because off-site demolition hauling activities would occur only during the first year of construction, associated emissions were modeled exclusively for the third trimester (0.25 year) exposure scenario. These emissions were not included in the infant (1-2 year) exposure scenario, as construction-related hauling would not occur during those subsequent years.

4.2 Air Dispersion Model Assumptions

Health risk impacts from DPM emissions were estimated using the AERMOD dispersion model. The results of the air dispersion model are provided in **Appendix C**.

4.2.1 Model Assumptions

The general model assumptions utilized for this analysis are shown in **Table 4-2**.

Table 4-2 | Dispersion Model Assumptions

Feature	Operation
Terrain Processing	Elevated terrain
Regulatory Dispersion Options	Default assumptions used
Land Use	Urban
Coordinate System	UTM
Building Downwash	Not included in calculations ¹
Receptor Height	0 meters ²

¹ Building downwash effects in AERMOD are only applicable to point source emissions. Since the construction phase does not include any point sources, building downwash is not considered in this analysis.

² Receptors are set at a height of 0 meters, consistent with SCAQMD Modeling Guidance for AERMOD.

4.2.2 Emission Source Assumptions

Each emission source requires project-specific assumptions for use in AERMOD. **Table 4-3** summarizes the assumptions used to configure the emissions sources assessed in this analysis. For the purposes of this analysis, emission sources are sorted into two categories:

- **Area Source:** Represents emissions distributed over a specific area rather than a single point. The emissions are characterized by parameters such as the emission rate per unit area, the dimensions of the area, and the release height. For this analysis, area sources are utilized to represent onsite construction-related emissions.
- **Line Source:** Represents emissions distributed along a linear path, such as a roadway or railway. The emissions are characterized by parameters such as the emission rate per unit length, the length of the line, and the release height. For this analysis, line sources are utilized to represent the study roadways and areas of onsite vehicle travel.

Table 4-3 | Dispersion Model Source Configurations

Emission Source Type	Configuration	Relevant Assumptions
Onsite Construction Activity	Area Sources	<ul style="list-style-type: none"> Source height: 3 meters (~9.84 feet)
Offsite Vehicle Traffic ¹	Line Sources	<ul style="list-style-type: none"> 127 daily hauling trips Stack release height: 3.5 meters (~11.48 feet) Vehicle speeds: <ul style="list-style-type: none"> 25 m.p.h. along 33rd Street 25 m.p.h. along Florine Avenue 25 m.p.h. along 34th Street Vehicle Types: HHDT Emission Factors: CARB EMFAC2025

¹ Emissions associated with offsite vehicle traffic are modeled during the third trimester (0.25 year) exposure scenario only, as hauling activity is expected to occur only during the demolition phase of construction.

4.2.3 Meteorological Data

Meteorological data recorded over hourly intervals are also utilized within AERMOD to determine the direction and rate of dispersion of emissions released into the atmosphere. The SCAQMD maintains 26 meteorological data collection stations throughout the District’s jurisdiction. Meteorological data from the five most recent years that meet the established completeness criteria is processed by the SCAQMD for use in dispersion modeling. Other information provided includes station details, surface characteristics, and temperature ranges.

The nearest meteorological data collection station to the proposed project site is the Riverside Municipal Airport (KRAL) station. For the purposes of this analysis, meteorological data for the KRAL station collected in 2019 through 2023 are used to represent local weather conditions and prevailing winds.

4.2.4 Modeled Sensitive Receptors

Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution exposure. Individuals who may be more sensitive to toxic exposures than the general population are distributed throughout the total population. Sensitive populations may include young children and chronically ill individuals.

For the purposes of this analysis, receptors were modeled at the first row of sensitive structures facing the project site within each sensitive receptor group identified in **Section 1.3** of this report. In addition, the identified sensitive receptor locations were supplemented by the specification of a modeling grid that extended around the proposed project and study area to identify other potential locations of impact.

Exhibit E shows the locations of each receptor placed in the air dispersion model.

4.3 Risk Assessment Methodology

DPM emissions sources associated with project construction will include onsite construction activity. The calculations used to calculate cancer risk are based on the methodology published by the SCAQMD and OEHHA.

For the purposes of this analysis, potential health risks to the adjacent receptors are expressed in terms of increased cancer and non-cancer health risks as a result of exposure to DPM emissions.

4.3.1 Cancer Health Risk Assessment Methodology

The cancer risk resulting from DPM emissions is calculated by multiplying the annual average DPM concentrations calculated using the AERMOD model at each receptor location and an inhalation exposure factor, as shown in the equation below.

$$Cancer\ Risk_{DPM} = Dose_{air} \times CPF \times ASF \times \frac{ED}{AT}$$

Where:

- $Dose_{air}$ = dose by inhalation (mg/kg/day), per age group;
- CPF = cancer potency factor, chemical specific (mg/kg/day);
- ASF = age sensitivity factor, per age group;
- ED = exposure duration (years); and
- AT = averaging time period over which exposure duration is averaged (70 years).

The dose by inhalation utilized for each age group was determined using the following equation.

$$Dose_{air, \text{ per age group}} = (C_{air} \times EF \times BR \times A \times CF)$$

Where:

- C_{air} = concentration of contaminant in air ($\mu\text{g}/\text{m}^3$);
- EF = exposure frequency (number of days per 365 days);
- BR = breathing rate per age group;
- A = inhalation absorption factor (default = 1); and

- CF = conversion factor (1x10⁻⁶, µg to mg, L to m³).

Table 4-4 shows the assumptions and values utilized in the above equations to calculate the cancer risk resulting from DPM exposure at each onsite receptor location.

It should be noted that, consistent with OEHHA and SCAQMD guidance, health risk assessments typically evaluate potential exposures for third trimester, infant, child, and adult receptors. However, because construction of the proposed project would occur over a relatively short duration, a full 30-year adult exposure scenario is not applicable. Accordingly, this analysis evaluates third trimester (0.25-year) and infant (0-2 years) exposure scenarios, which together represent the most sensitive potential life stages during the construction period. Excluding the child and adult exposure scenarios is appropriate in this case, as no long-term operational source of DPM emissions would remain after construction is complete.

Cancer risk calculation worksheets are provided in **Appendix D**.

Table 4-4 | Cancer Risk Calculation Values for DPM Exposure

Receptor Category	Age Range (years)	CPF ¹ (mg/kg/day)	ASF ²	ED ³ (Years)	EF ⁴ (days/year)	BR ⁵ (L/kg per 8 hours)
3 rd Trimester	0.25	1.1	10	0.25	350	361
Infant	0-2		10	2		1,090

¹ Inhalation cancer potency factor for Diesel Particulate Matter, per the OEHHA/ARB Approved Risk Assessment Health Values. <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable01072025v2.pdf>.

² Age sensitivity factor, per the OEHHA Air Toxics Hot Spots Program Guidance Manual, Table 8.3: Age Sensitivity Factors by Age Group for Cancer Risk Assessment.

³ ED =Exposure Duration.

⁴ EF = Exposure frequency (number of days per 365 days). Per the OEHHA Air Toxics Hot Spots Program Guidance Manual, the recommended default exposure frequency is 350 days for residential receptors.

⁵ Eight-hour breathing rate, per the OEHHA Air Toxics Hot Spots Program Guidance Manual, Table 5.6: Point Estimates of Residential Daily Breathing Rates for 3rd trimester, 0<2, 2<9, 2<16< 16<30 and 16-70 years (L/kg BW-day).

4.3.2 Non-Cancer Health Risk Characterization

Exposure to TACs can also cause non-cancer illnesses to individuals’ reproductive, respiratory, eye, kidney, blood, and nervous systems (etc.). Risk characterization for non-cancer health risks from TAC exposure is expressed as a hazard index (HI). The HI is a ratio of the predicted concentration of TACs to a concentration considered acceptable to public health professionals, termed the Reference Exposure Level (REL). The following equation is used to calculate the HI.

$$HI = C_{air}/REL$$

Where:

- HI = chronic hazard quotient for DPM;
- C_{air} = annual average concentration of DPM ($\mu\text{g}/\text{m}^3$); and
- REL = chronic reference exposure level for DPM ($5 \mu\text{g}/\text{m}^3$).

It should be noted that no acute hazard index was calculated for project-related DPM, as no acute reference exposure level is established for diesel particulate matter.

Non-cancer chronic hazard index calculation worksheets are provided in **Appendix D**.



Legend


- = Study Area Boundary
- = Construction Emissions Area Source Boundary
-  = Roadway Emissions Source Locations

Exhibit D
Construction Emissions Source Locations



Legend

- = Study Area Boundary (Within 1,000 feet of Construction Activity)
- ▲ = Modeled Receptor Locations

Exhibit E
Modeled Receptor Locations

5.0 Significance Thresholds

The SCAQMD has established thresholds for the purpose of determining whether pollutant emissions may have a significant effect on the environment per Section 15002(g) of the Guidelines for implementing CEQA. For TACs, the SCAQMD has established thresholds in terms of the maximum individual cancer risk (MICR) and the non-cancer hazard index (HI).

Table 5-1 lists the MICR and HI significance thresholds for the TACs analyzed in this report. These thresholds are applicable to the project’s potential incremental contribution to health risk and do not apply to existing ambient background risk levels.

Table 5-1 | SCAQMD Health Risk Assessment Significance Thresholds¹

Category	Risk Threshold
Maximum Incremental Cancer Risk	≥ 10 in one million
Cancer Burden	> 0.5 excess cancer cases (in areas ≥ 1 in one million)
Chronic & Acute Hazard Index	≥ 1 (project increment)

¹ Source: SCAQMD Air Quality Significance Thresholds. <https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25>.

6.0 Health Risk Assessment Results

Table 6-1 shows the project's construction health risk results at each of the modeled sensitive receptor locations. The cancer health risks shown in **Table 6-1** represent the total cumulative risk, which is calculated by summing across all age-specific exposure periods. The hazard indices are reported as the highest hazard index from any single exposure period at each receptor.

The cancer and non-cancer health risk calculation worksheets for the project are provided in **Appendix D. Exhibits F** and **G** show the emissions concentrations contour maps for the Third Trimester and Infant exposure scenarios, respectively.

As shown in **Table 6-1** below, the maximum construction cancer health risk and non-cancer hazard index are approximately 4.6111 and 0.0062, respectively.

As a result, DPM emissions associated with project construction are not expected to result in a cancer or non-cancer health risk that exceeds the applicable thresholds of significance established by the SCAQMD.

Table 6-1 | Unmitigated Construction Health Risk Levels

Sensitive Receptor	AERMOD Receptor ID	Cancer Risk (per one million)	
1	1	3.8190	
	2	3.9407	
	3	4.1468	
	4	4.2833	
	5	4.3107	
	6	4.3951	
	7	4.4224	
	8	4.5962	
	9	4.4647	
	10	4.4647	
	11	4.4696	
	12	4.5392	
	13	4.5119	
	14	4.2983	
	15	4.3332	
	16	4.2216	
	17	3.3033	
	18	2.2428	
2	19	1.8007	
	20	2.6001	
	21	3.4243	
3	22	4.1270	
4	23	4.6111	
	24	3.8141	
	25	3.4590	
5	26	1.7258	
	27	1.7332	
	28	1.8102	
	29	2.2944	
	30	2.0659	
	31	1.9989	
	32	2.0188	
	33	2.0188	
	34	4.4770	
Maximum Risk		4.6111	
SCAQMD Threshold		10	

In addition to the above assessment of maximum incremental cancer and non-cancer risk at the adjacent receptors, SCAQMD requires an assessment of cancer burden. Cancer burden is defined as the estimated number of excess cancer cases in the exposed population over a 70-year lifetime. It is calculated by multiplying the maximum incremental cancer risk (expressed per one million) by the estimated exposed population and then dividing by one million, to convert the rate to the expected number of cases.

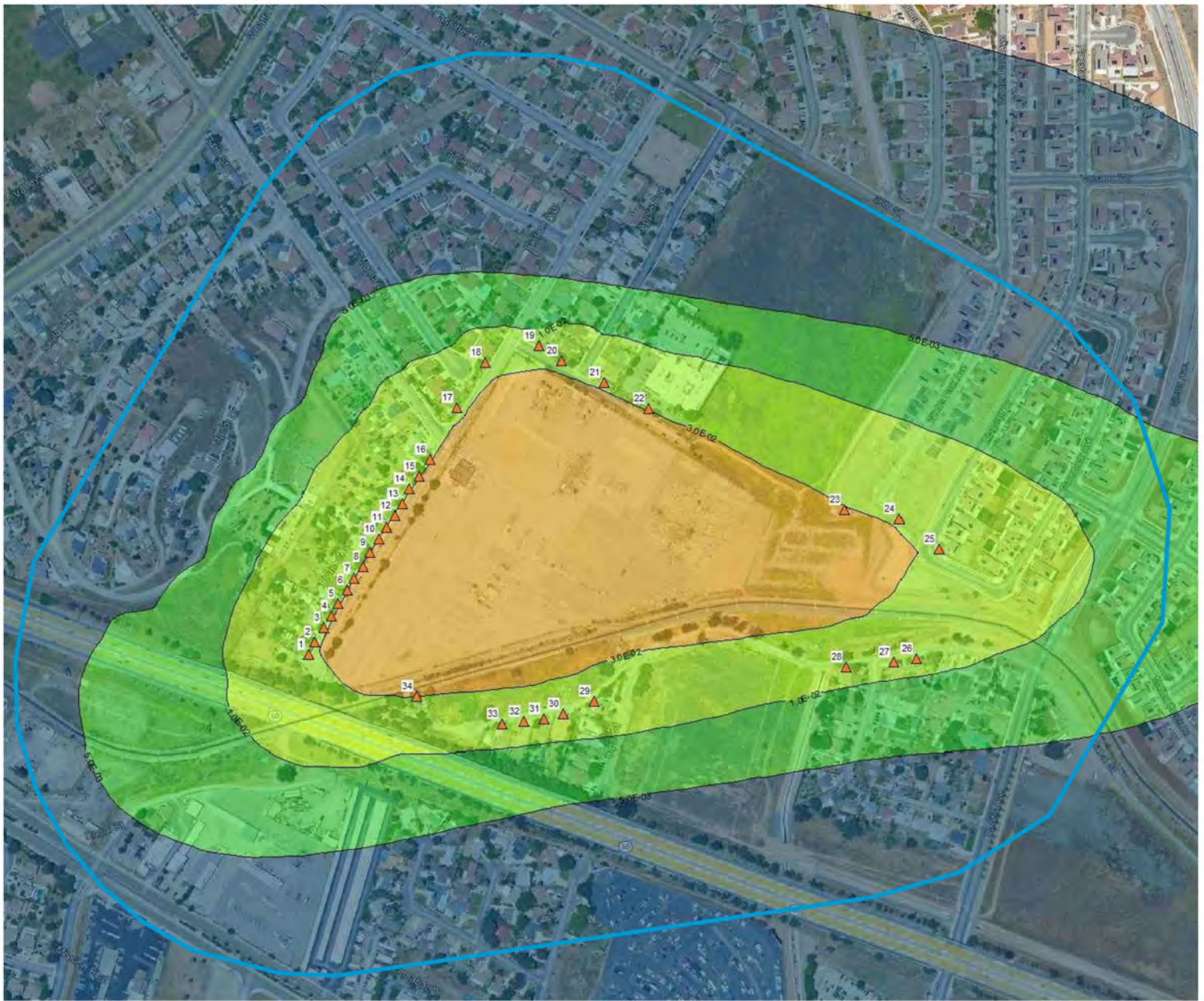
Based on aerial imagery and parcel counts, there are approximately 324 households located within the study area. Per the City of Jurupa Valley General Plan Housing Element, the County of Riverside had an average household size of 3.14 persons per household in the year 2010. Applying the average household size to the estimated 324 households in the study area, the estimated exposed population is approximately 1,017 residents.

Table 6-2 summarizes the cancer burden calculations for the construction of the project. As shown in the table below, the estimated total cancer burden is well below the SCAQMD significance threshold of 0.5 excess cancer cases under CEQA.

Table 6-2 | Unmitigated Estimated Cancer Burden

Maximum Incremental Cancer Risk (per one million)	Estimated Exposed Population	Estimated Cancer Burden
4.6111	1,017	0.0047
SCAQMD Cancer Burden Threshold		0.5
Exceeds Threshold?		No

Based on this analysis, the construction of the proposed project is not expected to result in a cancer health risk, non-cancer hazard index, or cancer burden which exceed the applicable SCAQMD thresholds. **As a result, the project impact from construction-related DPM emissions would be less than significant**



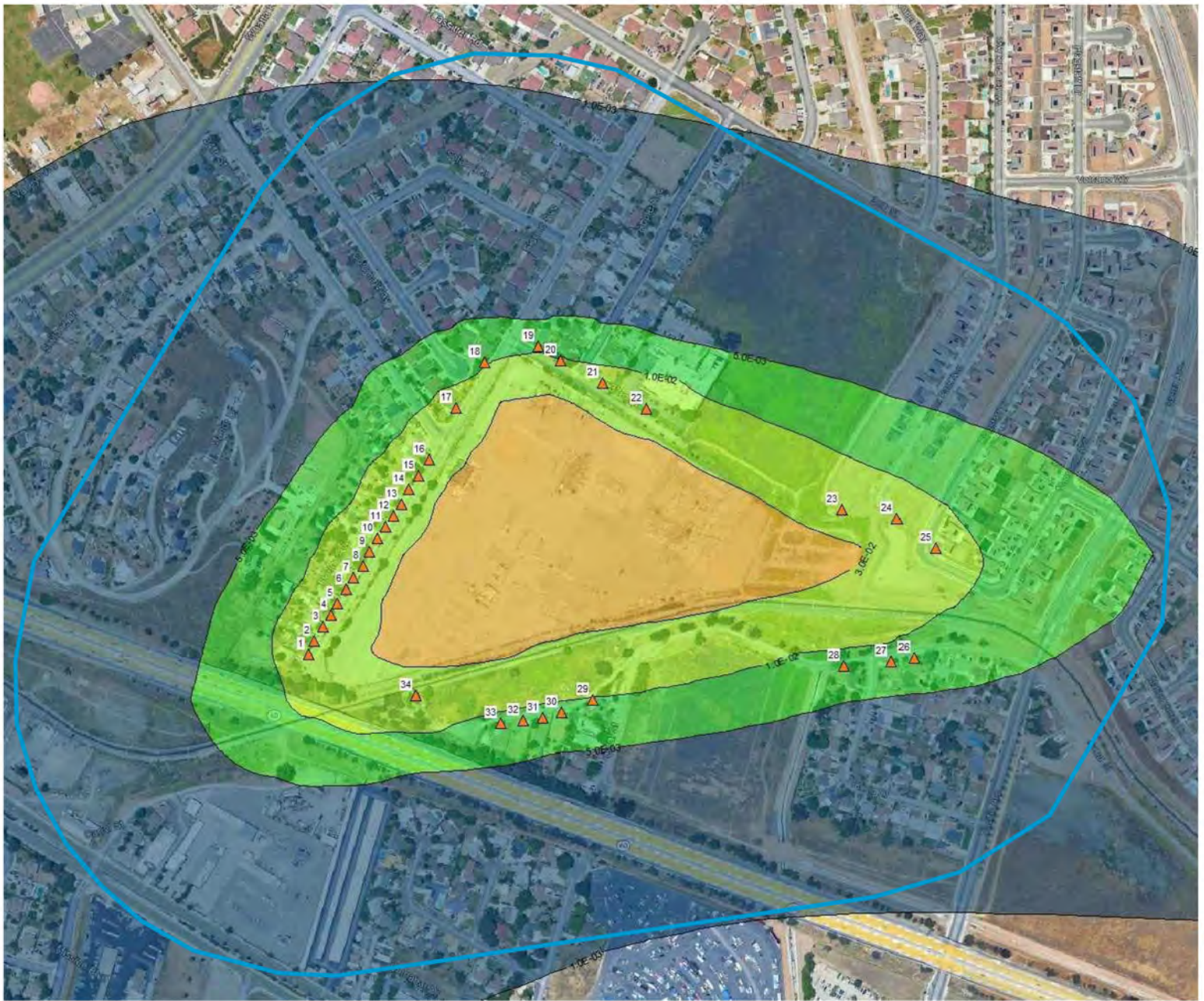
Legend

- = Study Area Boundary
- ▲ = Modeled Receptor Locations
- = 0.001 - 0.005 µg/m³
- = 0.005 - 0.01 µg/m³
- = 0.01 - 0.03 µg/m³
- = 0.03 - 0.1 µg/m³
- = 0.1 µg/m³ and above

Exhibit F

Contour Map - Construction Emissions Concentrations (Third Trimester Scenario)

INLAND EMPIRE TECHNICAL TRADE CENTER BUILDINGS 1A & 1B
 CONSTRUCTION HEALTH RISK ASSESSMENT (HRA) // CITY OF ANAHEIM, CA
 0094-2025-16



Legend

- = Study Area Boundary
- ▲ = Modeled Receptor Locations
- = 0.001 - 0.005 µg/m³
- = 0.005 - 0.01 µg/m³
- = 0.01 - 0.03 µg/m³
- = 0.03 - 0.1 µg/m³
- = 0.1 µg/m³ and above

Exhibit G

Contour Map - Construction Emissions Concentrations (Infant Scenario)

INLAND EMPIRE TECHNICAL TRADE CENTER BUILDINGS 1A & 1B
 CONSTRUCTION HEALTH RISK ASSESSMENT (HRA) // CITY OF ANAHEIM, CA
 0094-2025-16



Appendices



Appendix A
***Inland Empire Technical Trade Center Buildings 1A & 1B Air Quality,
Greenhouse Gas, and Energy Impact Study,
Appendix A - CalEEMod Emissions Outputs***



Appendix B

Emission Factors Calculation Worksheets



Appendix C

AERMOD Output Sheets

Third Trimester Exposure Scenario

**

**
** AERMOD Input Produced by:
** AERMOD View Ver: 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/29/2025
** File: O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmitigated\IETTC Unmitigated.ADI
**

**
**

** AERMOD Control Pathway

**
**

CO STARTING
TITLEONE O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi
MODELOPT DEFAULT CONC
AVERTIME PERIOD
URBANOPT 2492442 Riverside
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "IETTC Unmitigated.err"
CO FINISHED

**

** AERMOD Source Pathway

**
**

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA1 AREAPOLY 460594.667 3763325.518 269.320
** DESCRSRC Construction Emissions
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onroad Hauling
** PREFIX
** Length of Side = 8.59

** Configuration = Adjacent
** Emission Rate = 1.2674E-06
** Elevated
** Vertical Dimension = 6.99
** SZINIT = 1.62
** Nodes = 4
** 460778.753, 3763671.888, 272.82, 3.49, 4.00
** 460757.157, 3763685.359, 272.99, 3.49, 4.00
** 460691.544, 3763579.616, 272.30, 3.49, 4.00
** 460513.325, 3763834.516, 279.45, 3.49, 4.00

** -----
LOCATION L0000001 VOLUME 460775.109 3763674.161 272.85
LOCATION L0000002 VOLUME 460767.821 3763678.707 272.91
LOCATION L0000003 VOLUME 460760.532 3763683.254 272.96
LOCATION L0000004 VOLUME 460754.725 3763681.439 272.96
LOCATION L0000005 VOLUME 460750.196 3763674.140 272.92
LOCATION L0000006 VOLUME 460745.667 3763666.841 272.87
LOCATION L0000007 VOLUME 460741.138 3763659.542 272.82
LOCATION L0000008 VOLUME 460736.609 3763652.243 272.77
LOCATION L0000009 VOLUME 460732.080 3763644.944 272.73
LOCATION L0000010 VOLUME 460727.551 3763637.645 272.68
LOCATION L0000011 VOLUME 460723.022 3763630.346 272.63
LOCATION L0000012 VOLUME 460718.493 3763623.047 272.58
LOCATION L0000013 VOLUME 460713.964 3763615.748 272.54
LOCATION L0000014 VOLUME 460709.435 3763608.449 272.49
LOCATION L0000015 VOLUME 460704.905 3763601.150 272.44
LOCATION L0000016 VOLUME 460700.376 3763593.851 272.39
LOCATION L0000017 VOLUME 460695.847 3763586.552 272.35
LOCATION L0000018 VOLUME 460691.299 3763579.967 272.31
LOCATION L0000019 VOLUME 460686.377 3763587.007 272.51
LOCATION L0000020 VOLUME 460681.454 3763594.047 272.70
LOCATION L0000021 VOLUME 460676.532 3763601.086 272.90
LOCATION L0000022 VOLUME 460671.610 3763608.126 273.10
LOCATION L0000023 VOLUME 460666.688 3763615.166 273.30
LOCATION L0000024 VOLUME 460661.766 3763622.206 273.49
LOCATION L0000025 VOLUME 460656.844 3763629.246 273.69
LOCATION L0000026 VOLUME 460651.922 3763636.286 273.89
LOCATION L0000027 VOLUME 460647.000 3763643.326 274.09
LOCATION L0000028 VOLUME 460642.078 3763650.366 274.28
LOCATION L0000029 VOLUME 460637.155 3763657.406 274.48
LOCATION L0000030 VOLUME 460632.233 3763664.446 274.68
LOCATION L0000031 VOLUME 460627.311 3763671.486 274.88
LOCATION L0000032 VOLUME 460622.389 3763678.526 275.07

LOCATION L0000033 VOLUME 460617.467 3763685.566 275.27
LOCATION L0000034 VOLUME 460612.545 3763692.606 275.47
LOCATION L0000035 VOLUME 460607.623 3763699.646 275.67
LOCATION L0000036 VOLUME 460602.701 3763706.686 275.86
LOCATION L0000037 VOLUME 460597.779 3763713.726 276.06
LOCATION L0000038 VOLUME 460592.856 3763720.766 276.26
LOCATION L0000039 VOLUME 460587.934 3763727.806 276.46
LOCATION L0000040 VOLUME 460583.012 3763734.846 276.65
LOCATION L0000041 VOLUME 460578.090 3763741.885 276.85
LOCATION L0000042 VOLUME 460573.168 3763748.925 277.05
LOCATION L0000043 VOLUME 460568.246 3763755.965 277.25
LOCATION L0000044 VOLUME 460563.324 3763763.005 277.44
LOCATION L0000045 VOLUME 460558.402 3763770.045 277.64
LOCATION L0000046 VOLUME 460553.479 3763777.085 277.84
LOCATION L0000047 VOLUME 460548.557 3763784.125 278.04
LOCATION L0000048 VOLUME 460543.635 3763791.165 278.23
LOCATION L0000049 VOLUME 460538.713 3763798.205 278.43
LOCATION L0000050 VOLUME 460533.791 3763805.245 278.63
LOCATION L0000051 VOLUME 460528.869 3763812.285 278.83
LOCATION L0000052 VOLUME 460523.947 3763819.325 279.02
LOCATION L0000053 VOLUME 460519.025 3763826.365 279.22
LOCATION L0000054 VOLUME 460514.103 3763833.405 279.42

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

SRCPARAM PAREA1 8.5998E-09 3.000 33
AREAVERT PAREA1 460594.667 3763325.518 460561.254 3763338.944
AREAVERT PAREA1 460566.738 3763347.861 460568.275 3763350.219
AREAVERT PAREA1 460568.839 3763352.217 460569.146 3763355.292
AREAVERT PAREA1 460568.480 3763358.059 460567.352 3763361.134
AREAVERT PAREA1 460567.916 3763364.158 460760.540 3763672.366
AREAVERT PAREA1 461018.377 3763511.605 461027.534 3763505.882
AREAVERT PAREA1 461036.692 3763502.448 461046.743 3763499.173
AREAVERT PAREA1 461063.645 3763496.532 461077.906 3763496.268
AREAVERT PAREA1 461090.318 3763498.645 461102.730 3763502.078
AREAVERT PAREA1 461111.701 3763505.382 461126.903 3763474.023
AREAVERT PAREA1 461091.782 3763418.811 461081.902 3763419.934
AREAVERT PAREA1 461053.835 3763422.628 461023.073 3763425.098
AREAVERT PAREA1 461000.395 3763426.670 460983.330 3763426.221
AREAVERT PAREA1 460965.367 3763424.874 460938.647 3763420.607
AREAVERT PAREA1 460906.762 3763412.299 460865.896 3763400.623
AREAVERT PAREA1 460820.090 3763387.825 460791.065 3763380.468
AREAVERT PAREA1 460714.191 3763359.070

** LINE VOLUME Source ID = SLINE1

SRCPARAM L0000044	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000045	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000046	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000047	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000048	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000049	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000050	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000051	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000052	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000053	0.00000002347	3.49	4.00	1.62
SRCPARAM L0000054	0.00000002347	3.49	4.00	1.62

**-----

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "IETTC Unmitigated.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.sfc"

PROFILE "..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.pfl"

SURFDATA 3171 2019

UAIRDATA 3190 2019

PROFBASE 256.22 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "IETTC Unmitigated.AD\PE00GALL.PLT" 31

SUMMFILE "IETTC Unmitigated.sum"

OU FINISHED

*** 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 209 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 209 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 55 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2492442.0; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 55 Source(s); 1 Source Group(s); and 559 Receptor(s)

- with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
- and: 54 VOLUME source(s)
- and: 1 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 a total of 0 line(s)
- and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

m for Missing Hours

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 256.22 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: IETTC Unmitigated.err

**File for Summary of Results: IETTC Unmitigated.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE (METERS)	EMISSION RATE SCALAR	AIRCRAFT VARY BY
L0000001	0	0.23470E-07	460775.1	3763674.2	272.9	3.49	4.00	1.62	YES	NO	
L0000002	0	0.23470E-07	460767.8	3763678.7	272.9	3.49	4.00	1.62	YES	NO	
L0000003	0	0.23470E-07	460760.5	3763683.3	273.0	3.49	4.00	1.62	YES	NO	
L0000004	0	0.23470E-07	460754.7	3763681.4	273.0	3.49	4.00	1.62	YES	NO	
L0000005	0	0.23470E-07	460750.2	3763674.1	272.9	3.49	4.00	1.62	YES	NO	
L0000006	0	0.23470E-07	460745.7	3763666.8	272.9	3.49	4.00	1.62	YES	NO	
L0000007	0	0.23470E-07	460741.1	3763659.5	272.8	3.49	4.00	1.62	YES	NO	
L0000008	0	0.23470E-07	460736.6	3763652.2	272.8	3.49	4.00	1.62	YES	NO	
L0000009	0	0.23470E-07	460732.1	3763644.9	272.7	3.49	4.00	1.62	YES	NO	
L0000010	0	0.23470E-07	460727.6	3763637.6	272.7	3.49	4.00	1.62	YES	NO	
L0000011	0	0.23470E-07	460723.0	3763630.3	272.6	3.49	4.00	1.62	YES	NO	
L0000012	0	0.23470E-07	460718.5	3763623.0	272.6	3.49	4.00	1.62	YES	NO	
L0000013	0	0.23470E-07	460714.0	3763615.7	272.5	3.49	4.00	1.62	YES	NO	
L0000014	0	0.23470E-07	460709.4	3763608.4	272.5	3.49	4.00	1.62	YES	NO	
L0000015	0	0.23470E-07	460704.9	3763601.1	272.4	3.49	4.00	1.62	YES	NO	
L0000016	0	0.23470E-07	460700.4	3763593.9	272.4	3.49	4.00	1.62	YES	NO	
L0000017	0	0.23470E-07	460695.8	3763586.6	272.4	3.49	4.00	1.62	YES	NO	
L0000018	0	0.23470E-07	460691.3	3763580.0	272.3	3.49	4.00	1.62	YES	NO	
L0000019	0	0.23470E-07	460686.4	3763587.0	272.5	3.49	4.00	1.62	YES	NO	
L0000020	0	0.23470E-07	460681.5	3763594.0	272.7	3.49	4.00	1.62	YES	NO	
L0000021	0	0.23470E-07	460676.5	3763601.1	272.9	3.49	4.00	1.62	YES	NO	
L0000022	0	0.23470E-07	460671.6	3763608.1	273.1	3.49	4.00	1.62	YES	NO	
L0000023	0	0.23470E-07	460666.7	3763615.2	273.3	3.49	4.00	1.62	YES	NO	
L0000024	0	0.23470E-07	460661.8	3763622.2	273.5	3.49	4.00	1.62	YES	NO	
L0000025	0	0.23470E-07	460656.8	3763629.2	273.7	3.49	4.00	1.62	YES	NO	
L0000026	0	0.23470E-07	460651.9	3763636.3	273.9	3.49	4.00	1.62	YES	NO	
L0000027	0	0.23470E-07	460647.0	3763643.3	274.1	3.49	4.00	1.62	YES	NO	
L0000028	0	0.23470E-07	460642.1	3763650.4	274.3	3.49	4.00	1.62	YES	NO	
L0000029	0	0.23470E-07	460637.2	3763657.4	274.5	3.49	4.00	1.62	YES	NO	
L0000030	0	0.23470E-07	460632.2	3763664.4	274.7	3.49	4.00	1.62	YES	NO	

L0000031	0	0.23470E-07	460627.3	3763671.5	274.9	3.49	4.00	1.62	YES	NO
L0000032	0	0.23470E-07	460622.4	3763678.5	275.1	3.49	4.00	1.62	YES	NO
L0000033	0	0.23470E-07	460617.5	3763685.6	275.3	3.49	4.00	1.62	YES	NO
L0000034	0	0.23470E-07	460612.5	3763692.6	275.5	3.49	4.00	1.62	YES	NO
L0000035	0	0.23470E-07	460607.6	3763699.6	275.7	3.49	4.00	1.62	YES	NO
L0000036	0	0.23470E-07	460602.7	3763706.7	275.9	3.49	4.00	1.62	YES	NO
L0000037	0	0.23470E-07	460597.8	3763713.7	276.1	3.49	4.00	1.62	YES	NO
L0000038	0	0.23470E-07	460592.9	3763720.8	276.3	3.49	4.00	1.62	YES	NO
L0000039	0	0.23470E-07	460587.9	3763727.8	276.5	3.49	4.00	1.62	YES	NO
L0000040	0	0.23470E-07	460583.0	3763734.8	276.7	3.49	4.00	1.62	YES	NO

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE	AIRCRAFT		
SOURCE	PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE	SCALAR	VARY
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY	
L0000041	0	0.23470E-07	460578.1	3763741.9	276.9	3.49	4.00	1.62	YES	NO
L0000042	0	0.23470E-07	460573.2	3763748.9	277.1	3.49	4.00	1.62	YES	NO
L0000043	0	0.23470E-07	460568.2	3763756.0	277.2	3.49	4.00	1.62	YES	NO
L0000044	0	0.23470E-07	460563.3	3763763.0	277.4	3.49	4.00	1.62	YES	NO
L0000045	0	0.23470E-07	460558.4	3763770.0	277.6	3.49	4.00	1.62	YES	NO
L0000046	0	0.23470E-07	460553.5	3763777.1	277.8	3.49	4.00	1.62	YES	NO
L0000047	0	0.23470E-07	460548.6	3763784.1	278.0	3.49	4.00	1.62	YES	NO
L0000048	0	0.23470E-07	460543.6	3763791.2	278.2	3.49	4.00	1.62	YES	NO
L0000049	0	0.23470E-07	460538.7	3763798.2	278.4	3.49	4.00	1.62	YES	NO
L0000050	0	0.23470E-07	460533.8	3763805.2	278.6	3.49	4.00	1.62	YES	NO
L0000051	0	0.23470E-07	460528.9	3763812.3	278.8	3.49	4.00	1.62	YES	NO
L0000052	0	0.23470E-07	460523.9	3763819.3	279.0	3.49	4.00	1.62	YES	NO
L0000053	0	0.23470E-07	460519.0	3763826.4	279.2	3.49	4.00	1.62	YES	NO
L0000054	0	0.23470E-07	460514.1	3763833.4	279.4	3.49	4.00	1.62	YES	NO

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE /METER**2	LOCATION OF AREA (METERS)	BASE (METERS)	RELEASE NUMBER	INIT.	URBAN	EMISSION RATE	AIRCRAFT
			X	Y	SZ				BY
			ELEV.	HEIGHT OF VERTS.					
PAREA1	0	0.85998E-08	460594.7	3763325.5	269.3	3.00	33	0.00	YES NO

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
ALL PAREA1	,L0000001 ,L0000002 ,L0000003 ,L0000004 ,L0000005 ,L0000006 ,L0000007 ,
	L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,L0000013 ,L0000014 ,L0000015 ,
	L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,L0000021 ,L0000022 ,L0000023 ,
	L0000024 ,L0000025 ,L0000026 ,L0000027 ,L0000028 ,L0000029 ,L0000030 ,L0000031 ,
	L0000032 ,L0000033 ,L0000034 ,L0000035 ,L0000036 ,L0000037 ,L0000038 ,L0000039 ,
	L0000040 ,L0000041 ,L0000042 ,L0000043 ,L0000044 ,L0000045 ,L0000046 ,L0000047 ,
	L0000048 ,L0000049 ,L0000050 ,L0000051 ,L0000052 ,L0000053 ,L0000054 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
2492442. PAREA1		,L0000001 ,L0000002 ,L0000003 ,L0000004 ,L0000005 ,L0000006 , L0000007 ,
		L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,L0000013 ,L0000014 ,L0000015 ,
		L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,L0000021 ,L0000022 ,L0000023 ,
		L0000024 ,L0000025 ,L0000026 ,L0000027 ,L0000028 ,L0000029 ,L0000030 ,L0000031 ,
		L0000032 ,L0000033 ,L0000034 ,L0000035 ,L0000036 ,L0000037 ,L0000038 ,L0000039 ,
		L0000040 ,L0000041 ,L0000042 ,L0000043 ,L0000044 ,L0000045 ,L0000046 ,L0000047 ,
		L0000048 ,L0000049 ,L0000050 ,L0000051 ,L0000052 ,L0000053 ,L0000054 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***

(METERS)

460248.6, 460298.6, 460348.6, 460398.6, 460448.6, 460498.6, 460548.6, 460598.6, 460648.6, 460698.6,
460748.6, 460798.6, 460848.6, 460898.6, 460948.6, 460998.6, 461048.6, 461098.6, 461148.6, 461198.6,
461248.6, 461298.6, 461348.6, 461398.6, 461448.6,

*** Y-COORDINATES OF GRID ***

(METERS)

3763022.4, 3763072.4, 3763122.4, 3763172.4, 3763222.4, 3763272.4, 3763322.4, 3763372.4, 3763422.4, 3763472.4,
3763522.4, 3763572.4, 3763622.4, 3763672.4, 3763722.4, 3763772.4, 3763822.4, 3763872.4, 3763922.4, 3763972.4,
3764022.4,

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)								
(METERS)	460248.59	460298.59	460348.59	460398.59	460448.59	460498.59	460548.59	460598.59	460648.59

3764022.45	283.10	283.50	282.90	281.10	280.90	280.50	279.60	278.70	278.50
3763972.45	281.60	281.00	280.20	279.60	279.50	279.50	279.30	279.60	278.60
3763922.45	280.50	279.60	278.90	278.60	279.00	279.00	278.40	278.20	277.80
3763872.45	279.90	279.00	278.30	278.30	278.90	279.00	278.30	277.10	277.30
3763822.45	278.70	278.70	278.20	278.60	279.70	280.30	278.40	276.40	277.20
3763772.45	277.70	278.30	279.30	281.50	283.90	284.40	280.40	276.90	274.50
3763722.45	277.80	280.20	283.50	287.50	293.00	294.50	286.60	276.90	274.60
3763672.45	279.40	283.10	288.40	295.00	306.00	306.10	289.70	277.90	274.20
3763622.45	281.80	287.50	293.90	304.40	314.30	304.40	288.90	279.90	273.50
3763572.45	283.90	290.30	301.80	311.30	306.50	295.50	282.50	277.20	272.90
3763522.45	284.10	291.10	300.50	308.80	299.60	287.30	280.40	274.60	272.10
3763472.45	281.90	287.90	294.00	302.30	295.00	280.80	276.40	272.20	271.00
3763422.45	279.40	280.10	283.80	289.90	284.10	276.90	273.20	270.70	270.00
3763372.45	274.50	274.80	280.30	280.50	280.20	274.70	270.50	269.60	269.20
3763322.45	275.10	273.10	273.30	273.40	272.50	278.20	271.90	269.70	269.70
3763272.45	273.20	272.00	270.60	270.20	268.50	267.80	268.30	271.50	275.40
3763222.45	272.90	270.10	269.20	265.90	265.50	265.90	265.90	266.00	265.70
3763172.45	275.20	271.20	267.60	264.80	264.20	264.30	264.60	264.70	264.70
3763122.45	275.00	274.00	266.10	264.30	263.30	263.20	263.40	263.70	263.90
3763072.45	271.80	268.80	265.30	263.00	262.30	262.60	262.70	262.90	262.90
3763022.45	274.20	267.60	264.50	262.30	260.90	261.10	261.90	262.10	261.70

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 460698.59 460748.59 460798.59 460848.59 460898.59 460948.59 460998.59 461048.59 461098.59

3764022.45	278.00	278.30	281.20	280.00	279.00	278.60	278.50	278.30	278.30
3763972.45	278.40	277.70	277.80	278.30	279.10	277.30	277.00	277.50	277.20
3763922.45	277.10	277.90	277.70	277.00	277.20	276.20	276.20	276.30	276.30
3763872.45	276.80	276.30	276.40	276.80	276.80	275.30	276.10	276.60	276.80
3763822.45	275.30	276.40	275.70	275.50	276.00	274.80	275.30	275.50	275.90
3763772.45	274.40	275.20	274.70	275.40	274.90	274.70	274.50	274.50	275.00
3763722.45	273.60	273.60	273.60	274.00	274.20	273.10	273.30	273.50	274.10
3763672.45	273.60	272.80	272.70	272.60	273.00	272.80	272.60	272.60	273.10
3763622.45	272.80	272.50	271.90	271.90	271.90	271.70	271.80	271.70	272.10
3763572.45	272.10	271.60	270.80	270.70	270.80	270.60	270.60	270.70	271.00
3763522.45	271.30	270.90	270.20	269.70	269.80	269.60	269.60	269.80	270.30
3763472.45	270.40	270.20	269.50	269.20	268.90	268.90	269.00	269.30	269.70
3763422.45	269.40	269.30	269.00	268.70	268.40	268.70	268.60	268.50	268.70
3763372.45	268.80	268.50	268.50	268.00	267.30	267.00	266.60	266.70	267.50
3763322.45	268.10	267.60	267.50	266.70	266.30	266.00	265.90	265.90	265.80
3763272.45	274.30	269.60	265.90	265.80	265.50	265.30	265.10	265.10	265.20
3763222.45	265.80	269.90	271.30	269.30	265.30	264.50	264.20	263.80	264.40
3763172.45	264.70	263.90	264.10	264.40	267.40	267.30	265.30	263.10	263.00
3763122.45	264.10	263.00	263.20	262.60	262.40	262.00	263.60	266.90	267.50
3763072.45	263.30	262.00	262.10	261.40	261.40	261.30	261.50	262.30	261.40
3763022.45	261.50	261.50	260.80	260.40	260.20	260.10	260.60	261.40	260.60

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)						
(METERS)	461148.59	461198.59	461248.59	461298.59	461348.59	461398.59	461448.59

3764022.45	279.90	279.40	279.70	281.20	283.50	285.50	294.70
3763972.45	278.10	279.10	279.20	280.20	282.50	284.70	292.90
3763922.45	277.90	278.60	278.70	279.20	281.40	283.00	286.80
3763872.45	275.70	277.50	277.90	277.90	281.20	283.00	287.00
3763822.45	275.60	275.40	277.30	277.40	279.70	280.20	284.10
3763772.45	274.90	274.60	275.00	276.10	277.60	277.60	282.50
3763722.45	274.20	273.70	273.90	275.90	276.20	282.50	282.90
3763672.45	273.30	272.80	273.20	275.50	276.80	278.80	282.30
3763622.45	272.40	272.30	272.10	274.30	275.80	281.20	282.70
3763572.45	271.40	271.60	271.70	273.20	275.40	284.10	281.70
3763522.45	270.80	271.10	270.70	271.30	272.50	280.80	280.30
3763472.45	270.20	270.60	270.10	270.60	270.80	276.00	275.40
3763422.45	269.30	269.30	269.20	269.50	269.50	270.80	272.70
3763372.45	267.60	267.70	267.90	268.00	268.40	270.00	272.10
3763322.45	266.20	266.80	266.70	266.80	267.30	268.70	271.30
3763272.45	265.30	265.50	265.80	266.00	266.30	267.70	269.90
3763222.45	264.70	264.60	264.80	265.10	265.60	266.10	268.20
3763172.45	263.20	263.40	263.90	264.40	264.70	265.10	266.10
3763122.45	264.30	262.00	263.00	263.50	263.60	264.00	264.70
3763072.45	266.50	268.50	264.30	262.60	262.50	262.90	263.50
3763022.45	260.60	260.90	262.70	267.40	267.10	264.30	262.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

[460554.3, 3763371.5, 270.4, 676.9, 0.0);	[460560.1, 3763384.3, 270.6, 676.9, 0.0);
[460569.3, 3763398.6, 270.8, 676.9, 0.0);	[460577.0, 3763410.3, 271.0, 676.9, 0.0);
[460583.8, 3763422.7, 271.3, 676.9, 0.0);	[460592.5, 3763436.2, 271.5, 676.9, 0.0);
[460599.9, 3763448.4, 271.7, 676.9, 0.0);	[460609.0, 3763459.7, 271.7, 676.9, 0.0);
[460615.7, 3763474.1, 271.8, 676.9, 0.0);	[460624.2, 3763487.8, 271.9, 676.9, 0.0);
[460631.9, 3763499.6, 272.0, 676.9, 0.0);	[460640.2, 3763510.6, 272.0, 676.9, 0.0);
[460647.7, 3763522.3, 272.1, 676.9, 0.0);	[460655.0, 3763537.5, 272.3, 676.9, 0.0);
[460665.0, 3763550.5, 272.3, 676.9, 0.0);	[460675.5, 3763566.9, 272.4, 676.9, 0.0);
[460703.0, 3763619.1, 272.6, 676.9, 0.0);	[460731.5, 3763664.3, 273.1, 676.9, 0.0);
[460785.0, 3763680.9, 272.9, 676.9, 0.0);	[460807.8, 3763666.4, 272.6, 676.9, 0.0);
[460850.0, 3763644.4, 272.3, 676.9, 0.0);	[460894.4, 3763618.4, 271.8, 676.9, 0.0);
[461091.1, 3763516.9, 270.1, 676.9, 0.0);	[461145.8, 3763507.9, 270.5, 676.9, 0.0);
[461184.5, 3763477.5, 271.1, 676.9, 0.0);	[461162.5, 3763367.6, 267.5, 676.9, 0.0);
[461140.0, 3763364.0, 267.2, 676.9, 0.0);	[461092.7, 3763359.2, 266.7, 676.9, 0.0);
[460839.8, 3763325.2, 267.0, 676.9, 0.0);	[460808.9, 3763312.6, 266.8, 676.9, 0.0);
[460789.6, 3763307.3, 266.6, 676.9, 0.0);	[460769.9, 3763305.0, 266.6, 676.9, 0.0);
[460747.6, 3763301.8, 266.8, 676.9, 0.0);	[460662.5, 3763329.8, 268.5, 676.9, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN 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	-- RECEPTOR LOCATION --	DISTANCE
ID	XR (METERS) YR (METERS)	(METERS)
L0000005	460748.6 3763672.4	-6.27
L0000006	460748.6 3763672.4	-2.28
L0000037	460598.6 3763722.4	0.16
L0000038	460598.6 3763722.4	-2.62
L0000046	460548.6 3763772.4	-1.86

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

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1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 111111
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25
*** AERMET - VERSION 22112 *** ** *** 11:56:11

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: ..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.sfc Met Version: 22112
Profile file: ..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.pfl
Surface format: FREE
Profile format: FREE
Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	ZO	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
19	01	01	1	01	-53.7	0.548	-9.000	-9.000	-999.	974.	330.7	0.12	0.58	1.00	6.14	44.	10.1	281.4	2.0			
19	01	01	1	02	-48.4	0.493	-9.000	-9.000	-999.	836.	267.9	0.12	0.58	1.00	5.55	44.	10.1	281.4	2.0			
19	01	01	1	03	-32.2	0.327	-9.000	-9.000	-999.	472.	117.6	0.12	0.58	1.00	3.74	38.	10.1	280.3	2.0			
19	01	01	1	04	-14.7	0.169	-9.000	-9.000	-999.	190.	31.3	0.09	0.58	1.00	2.16	71.	10.1	279.8	2.0			
19	01	01	1	05	-36.7	0.372	-9.000	-9.000	-999.	544.	151.9	0.12	0.58	1.00	4.23	38.	10.1	279.8	2.0			
19	01	01	1	06	-51.0	0.517	-9.000	-9.000	-999.	891.	293.6	0.12	0.58	1.00	5.80	35.	10.1	280.3	2.0			
19	01	01	1	07	-59.7	0.605	-9.000	-9.000	-999.	1126.	402.0	0.11	0.58	1.00	6.91	29.	10.1	280.3	2.0			
19	01	01	1	08	-36.5	0.495	-9.000	-9.000	-999.	848.	293.2	0.11	0.58	0.53	5.67	12.	10.1	280.9	2.0			
19	01	01	1	09	19.5	0.330	0.399	0.005	115.	478.	-162.7	0.11	0.58	0.31	3.56	20.	10.1	282.5	2.0			
19	01	01	1	10	54.7	0.536	0.694	0.005	216.	942.	-249.1	0.11	0.58	0.24	5.87	27.	10.1	283.8	2.0			
19	01	01	1	11	79.0	0.654	0.988	0.005	431.	1268.	-313.1	0.11	0.58	0.21	7.20	17.	10.1	284.2	2.0			
19	01	01	1	12	90.7	0.632	1.268	0.005	794.	1209.	-246.0	0.11	0.58	0.20	6.92	13.	10.1	284.8	2.0			
19	01	01	1	13	89.3	0.608	1.309	0.005	886.	1141.	-222.3	0.11	0.58	0.20	6.64	16.	10.1	285.3	2.0			
19	01	01	1	14	74.8	0.549	1.265	0.005	955.	982.	-195.3	0.11	0.58	0.22	5.97	13.	10.1	285.3	2.0			
19	01	01	1	15	47.9	0.620	1.106	0.005	997.	1170.	-439.1	0.11	0.58	0.25	6.87	16.	10.1	285.3	2.0			
19	01	01	1	16	10.9	0.545	0.678	0.005	1006.	973.	-1306.5	0.11	0.58	0.34	6.11	22.	10.1	284.8	2.0			
19	01	01	1	17	-36.8	0.408	-9.000	-9.000	-999.	642.	183.0	0.11	0.58	0.62	4.73	14.	10.1	283.8	2.0			
19	01	01	1	18	-38.4	0.392	-9.000	-9.000	-999.	590.	169.0	0.11	0.58	1.00	4.56	20.	10.1	282.5	2.0			
19	01	01	1	19	-28.7	0.292	-9.000	-9.000	-999.	385.	93.9	0.11	0.58	1.00	3.44	18.	10.1	282.5	2.0			
19	01	01	1	20	-24.6	0.250	-9.000	-9.000	-999.	301.	68.7	0.12	0.58	1.00	2.89	44.	10.1	282.0	2.0			
19	01	01	1	21	-11.6	0.148	-9.000	-9.000	-999.	142.	25.0	0.09	0.58	1.00	1.92	81.	10.1	280.3	2.0			
19	01	01	1	22	-7.9	0.120	-9.000	-9.000	-999.	100.	19.5	0.07	0.58	1.00	1.67	208.	10.1	279.2	2.0			
19	01	01	1	23	-16.1	0.176	-9.000	-9.000	-999.	178.	34.2	0.09	0.58	1.00	2.25	82.	10.1	279.2	2.0			
19	01	01	1	24	-23.1	0.233	-9.000	-9.000	-999.	270.	59.9	0.09	0.58	1.00	2.93	63.	10.1	280.3	2.0			

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 10.1 1 44. 6.14 281.5 99.0 -99.00 -99.00

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

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,L0000001 ,L0000002 ,L0000003 ,L0000004 ,
L0000005 ,L0000006 ,L0000007 ,L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,
L0000013 ,L0000014 ,L0000015 ,L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,
L0000021 ,L0000022 ,L0000023 ,L0000024 ,L0000025 ,L0000026 ,L0000027 ,... ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS)| 460248.59 460298.59 460348.59 460398.59 460448.59 460498.59 460548.59 460598.59 460648.59

3764022.45	0.00107	0.00110	0.00114	0.00119	0.00122	0.00124	0.00127	0.00128	0.00128
3763972.45	0.00121	0.00127	0.00133	0.00139	0.00143	0.00147	0.00149	0.00150	0.00152
3763922.45	0.00136	0.00145	0.00154	0.00162	0.00169	0.00175	0.00180	0.00183	0.00185
3763872.45	0.00153	0.00165	0.00177	0.00189	0.00200	0.00211	0.00221	0.00228	0.00231
3763822.45	0.00172	0.00187	0.00203	0.00220	0.00235	0.00257	0.00282	0.00292	0.00297
3763772.45	0.00193	0.00212	0.00231	0.00248	0.00262	0.00285	0.00344	0.00381	0.00406
3763722.45	0.00215	0.00235	0.00250	0.00257	0.00246	0.00259	0.00359	0.00502	0.00569
3763672.45	0.00235	0.00254	0.00257	0.00241	0.00220	0.00252	0.00402	0.00655	0.00857
3763622.45	0.00252	0.00259	0.00249	0.00226	0.00247	0.00310	0.00509	0.00830	0.01301
3763572.45	0.00266	0.00266	0.00229	0.00243	0.00301	0.00427	0.00784	0.01198	0.01964
3763522.45	0.00286	0.00283	0.00259	0.00279	0.00378	0.00644	0.01041	0.01707	0.03075
3763472.45	0.00316	0.00330	0.00331	0.00332	0.00473	0.00923	0.01426	0.02442	0.04951
3763422.45	0.00343	0.00406	0.00463	0.00483	0.00717	0.01153	0.01868	0.03683	0.06058
3763372.45	0.00370	0.00444	0.00516	0.00643	0.00837	0.01287	0.02333	0.04662	0.05971
3763322.45	0.00379	0.00452	0.00549	0.00684	0.00886	0.01145	0.01909	0.02705	0.02639
3763272.45	0.00377	0.00444	0.00529	0.00638	0.00777	0.00945	0.01100	0.01115	0.00989
3763222.45	0.00365	0.00420	0.00484	0.00552	0.00624	0.00688	0.00713	0.00691	0.00642
3763172.45	0.00347	0.00382	0.00424	0.00461	0.00492	0.00509	0.00505	0.00480	0.00444
3763122.45	0.00316	0.00337	0.00361	0.00379	0.00388	0.00388	0.00375	0.00353	0.00325
3763072.45	0.00276	0.00293	0.00305	0.00310	0.00309	0.00303	0.00288	0.00269	0.00247
3763022.45	0.00242	0.00252	0.00256	0.00255	0.00249	0.00239	0.00227	0.00211	0.00193

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,L0000001 ,L0000002 ,L0000003 ,L0000004 ,
L0000005 ,L0000006 ,L0000007 ,L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,
L0000013 ,L0000014 ,L0000015 ,L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,
L0000021 ,L0000022 ,L0000023 ,L0000024 ,L0000025 ,L0000026 ,L0000027 ,... ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS)| 460698.59 460748.59 460798.59 460848.59 460898.59 460948.59 460998.59 461048.59 461098.59

Y-COORD (METERS)	X-COORD (METERS) 460698.59	X-COORD (METERS) 460748.59	X-COORD (METERS) 460798.59	X-COORD (METERS) 460848.59	X-COORD (METERS) 460898.59	X-COORD (METERS) 460948.59	X-COORD (METERS) 460998.59	X-COORD (METERS) 461048.59	X-COORD (METERS) 461098.59
3764022.45	0.00127	0.00125	0.00119	0.00116	0.00112	0.00108	0.00104	0.00100	0.00097
3763972.45	0.00151	0.00149	0.00145	0.00139	0.00132	0.00128	0.00123	0.00118	0.00114
3763922.45	0.00185	0.00181	0.00175	0.00169	0.00161	0.00155	0.00149	0.00143	0.00137
3763872.45	0.00231	0.00228	0.00220	0.00210	0.00200	0.00193	0.00183	0.00174	0.00165
3763822.45	0.00303	0.00296	0.00287	0.00273	0.00259	0.00248	0.00234	0.00221	0.00207
3763772.45	0.00418	0.00412	0.00398	0.00374	0.00355	0.00334	0.00314	0.00295	0.00275
3763722.45	0.00632	0.00652	0.00627	0.00590	0.00554	0.00520	0.00483	0.00448	0.00414
3763672.45	0.01073	0.01488	0.01530	0.01267	0.01068	0.00924	0.00810	0.00717	0.00639
3763622.45	0.02034	0.05249	0.05836	0.04106	0.02492	0.01829	0.01447	0.01196	0.01011
3763572.45	0.04273	0.06519	0.06823	0.06805	0.06046	0.04026	0.02690	0.02023	0.01603
3763522.45	0.06051	0.07210	0.07569	0.07679	0.07547	0.06991	0.05655	0.03760	0.02726
3763472.45	0.06817	0.07581	0.07887	0.07931	0.07721	0.07505	0.07175	0.06777	0.05698
3763422.45	0.07088	0.07496	0.07426	0.07105	0.06483	0.05713	0.04898	0.04464	0.03616
3763372.45	0.06023	0.05429	0.04336	0.03296	0.02643	0.02235	0.01933	0.01659	0.01410
3763322.45	0.02211	0.01902	0.01660	0.01451	0.01288	0.01152	0.01030	0.00915	0.00824
3763272.45	0.00974	0.00931	0.00844	0.00778	0.00716	0.00659	0.00607	0.00561	0.00527
3763222.45	0.00592	0.00553	0.00510	0.00475	0.00437	0.00407	0.00382	0.00363	0.00351
3763172.45	0.00405	0.00367	0.00335	0.00310	0.00291	0.00274	0.00259	0.00248	0.00243
3763122.45	0.00296	0.00267	0.00242	0.00221	0.00204	0.00191	0.00184	0.00180	0.00178
3763072.45	0.00225	0.00203	0.00184	0.00167	0.00155	0.00145	0.00138	0.00135	0.00132
3763022.45	0.00175	0.00159	0.00145	0.00132	0.00122	0.00115	0.00109	0.00106	0.00104

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,L0000001 ,L0000002 ,L0000003 ,L0000004 ,
L0000005 ,L0000006 ,L0000007 ,L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,
L0000013 ,L0000014 ,L0000015 ,L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,
L0000021 ,L0000022 ,L0000023 ,L0000024 ,L0000025 ,L0000026 ,L0000027 ,... ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS)| 461148.59 461198.59 461248.59 461298.59 461348.59 461398.59 461448.59

3764022.45	0.00093	0.00090	0.00087	0.00083	0.00078	0.00074	0.00062
3763972.45	0.00109	0.00104	0.00100	0.00096	0.00090	0.00084	0.00072
3763922.45	0.00129	0.00123	0.00117	0.00112	0.00105	0.00099	0.00091
3763872.45	0.00158	0.00148	0.00140	0.00134	0.00124	0.00116	0.00105
3763822.45	0.00197	0.00187	0.00173	0.00165	0.00153	0.00145	0.00131
3763772.45	0.00259	0.00245	0.00230	0.00215	0.00200	0.00190	0.00169
3763722.45	0.00385	0.00359	0.00336	0.00292	0.00273	0.00233	0.00220
3763672.45	0.00574	0.00522	0.00477	0.00410	0.00372	0.00336	0.00298
3763622.45	0.00871	0.00764	0.00679	0.00603	0.00520	0.00442	0.00399
3763572.45	0.01313	0.01107	0.00949	0.00820	0.00703	0.00565	0.00530
3763522.45	0.02079	0.01617	0.01293	0.01060	0.00889	0.00746	0.00660
3763472.45	0.03513	0.02095	0.01519	0.01189	0.00973	0.00847	0.00729
3763422.45	0.02384	0.01734	0.01348	0.01094	0.00913	0.00779	0.00674
3763372.45	0.01259	0.01123	0.00987	0.00864	0.00759	0.00670	0.00595
3763322.45	0.00768	0.00727	0.00683	0.00635	0.00587	0.00540	0.00494
3763272.45	0.00504	0.00488	0.00473	0.00457	0.00438	0.00418	0.00396
3763222.45	0.00344	0.00338	0.00333	0.00329	0.00324	0.00317	0.00308
3763172.45	0.00241	0.00240	0.00240	0.00240	0.00240	0.00239	0.00237
3763122.45	0.00176	0.00175	0.00177	0.00178	0.00179	0.00181	0.00182
3763072.45	0.00133	0.00134	0.00134	0.00135	0.00137	0.00139	0.00140
3763022.45	0.00103	0.00103	0.00104	0.00106	0.00107	0.00109	0.00110

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA1 ,L0000001 ,L0000002 ,L0000003 ,L0000004 ,
 L0000005 ,L0000006 ,L0000007 ,L0000008 ,L0000009 ,L0000010 ,L0000011 ,L0000012 ,
 L0000013 ,L0000014 ,L0000015 ,L0000016 ,L0000017 ,L0000018 ,L0000019 ,L0000020 ,
 L0000021 ,L0000022 ,L0000023 ,L0000024 ,L0000025 ,L0000026 ,L0000027 ,... ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
460554.29	3763371.50	0.02572	460560.15	3763384.29	0.02654
460569.33	3763398.64	0.02791	460577.00	3763410.32	0.02883
460583.84	3763422.67	0.02902	460592.52	3763436.18	0.02960
460599.86	3763448.37	0.02978	460609.04	3763459.71	0.03095
460615.72	3763474.06	0.03007	460624.23	3763487.75	0.03008
460631.90	3763499.59	0.03011	460640.25	3763510.61	0.03059
460647.73	3763522.32	0.03040	460654.96	3763537.51	0.02897
460664.97	3763550.53	0.02924	460675.46	3763566.93	0.02855
460702.95	3763619.13	0.02252	460731.52	3763664.34	0.01533
460785.05	3763680.86	0.01231	460807.84	3763666.39	0.01761
460850.04	3763644.45	0.02311	460894.41	3763618.41	0.02780
461091.14	3763516.86	0.03104	461145.81	3763507.91	0.02568
461184.49	3763477.54	0.02329	461162.47	3763367.61	0.01162
461140.04	3763364.00	0.01166	461092.66	3763359.17	0.01219
460839.82	3763325.19	0.01544	460808.89	3763312.56	0.01390
460789.60	3763307.31	0.01346	460769.88	3763305.04	0.01359
460747.61	3763301.78	0.01359	460662.48	3763329.83	0.03013

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL 1ST HIGHEST VALUE IS 0.07931 AT (460848.59, 3763472.45, 269.20, 676.90, 0.00) GC GRID
2ND HIGHEST VALUE IS 0.07887 AT (460798.59, 3763472.45, 269.50, 676.90, 0.00) GC GRID
3RD HIGHEST VALUE IS 0.07721 AT (460898.59, 3763472.45, 268.90, 676.90, 0.00) GC GRID
4TH HIGHEST VALUE IS 0.07679 AT (460848.59, 3763522.45, 269.70, 676.90, 0.00) GC GRID
5TH HIGHEST VALUE IS 0.07581 AT (460748.59, 3763472.45, 270.20, 676.90, 0.00) GC GRID
6TH HIGHEST VALUE IS 0.07569 AT (460798.59, 3763522.45, 270.20, 676.90, 0.00) GC GRID
7TH HIGHEST VALUE IS 0.07547 AT (460898.59, 3763522.45, 269.80, 676.90, 0.00) GC GRID
8TH HIGHEST VALUE IS 0.07505 AT (460948.59, 3763472.45, 268.90, 676.90, 0.00) GC GRID
9TH HIGHEST VALUE IS 0.07496 AT (460748.59, 3763422.45, 269.30, 676.90, 0.00) GC GRID
10TH HIGHEST VALUE IS 0.07426 AT (460798.59, 3763422.45, 269.00, 676.90, 0.00) GC GRID

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 11:56:11

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN 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 1829 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 852 Calm Hours Identified

A Total of 977 Missing Hours Identified (2.23 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

ME W186 209 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 209 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

Infant Exposure Scenario

**

**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/29/2025
** File: O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmitigated 2 yr\IETTC Unmitigated 2 yr.ADI
**

**
**

** AERMOD Control Pathway

**
**

CO STARTING
TITLEONE O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi
MODELOPT DEFAULT CONC
AVERTIME PERIOD
URBANOPT 2492442 Riverside
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "IETTC Unmitigated 2 yr.err"
CO FINISHED

**

** AERMOD Source Pathway

**
**

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA1 AREAPOLY 460594.667 3763325.518 269.320
** DESCRSRC Construction Emissions
** Source Parameters **
SRCPARAM PAREA1 5.1464E-09 3.000 33
AREAVERT PAREA1 460594.667 3763325.518 460561.254 3763338.944
AREAVERT PAREA1 460566.738 3763347.861 460568.275 3763350.219
AREAVERT PAREA1 460568.839 3763352.217 460569.146 3763355.292
AREAVERT PAREA1 460568.480 3763358.059 460567.352 3763361.134

AREAVERT PAREA1 460567.916 3763364.158 460760.540 3763672.366
AREAVERT PAREA1 461018.377 3763511.605 461027.534 3763505.882
AREAVERT PAREA1 461036.692 3763502.448 461046.743 3763499.173
AREAVERT PAREA1 461063.645 3763496.532 461077.906 3763496.268
AREAVERT PAREA1 461090.318 3763498.645 461102.730 3763502.078
AREAVERT PAREA1 461111.701 3763505.382 461126.903 3763474.023
AREAVERT PAREA1 461091.782 3763418.811 461081.902 3763419.934
AREAVERT PAREA1 461053.835 3763422.628 461023.073 3763425.098
AREAVERT PAREA1 461000.395 3763426.670 460983.330 3763426.221
AREAVERT PAREA1 460965.367 3763424.874 460938.647 3763420.607
AREAVERT PAREA1 460906.762 3763412.299 460865.896 3763400.623
AREAVERT PAREA1 460820.090 3763387.825 460791.065 3763380.468
AREAVERT PAREA1 460714.191 3763359.070

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "IETTC Unmitigated 2 yr.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.sfc"

PROFFILE "..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.pfl"

SURFDATA 3171 2019

UAIRDATA 3190 2019

PROFBASE 256.22 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "IETTC UNMITIGATED 2 YR.AD\PE00GALL.PLT" 31

SUMMFILE "IETTC Unmitigated 2 yr.sum"

OU FINISHED

*** 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 81 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 81 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2492442.0; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 1 Source(s); 1 Source Group(s); and 559 Receptor(s)

- with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
- and: 0 VOLUME source(s)
- and: 1 AREA type source(s)
- and: 0 LINE source(s)
- and: 0 RLINE/RLINEXT source(s)
- and: 0 OPENPIT source(s)
- and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
- and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 22112

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

m for Missing Hours

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 256.22 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: IETTC Unmitigated 2 yr.err

**File for Summary of Results: IETTC Unmitigated 2 yr.sum

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 13:50:19

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

NUMBER	EMISSION RATE	LOCATION OF AREA	BASE	RELEASE NUMBER	INIT.	URBAN	EMISSION RATE	AIRCRAFT		
SOURCE	PART. (GRAMS/SEC	X	Y	ELEV. HEIGHT OF VERTS.	SZ	SOURCE	SCALAR VARY			
ID	CATS. /METER**2)	(METERS)	(METERS)	(METERS)	(METERS)		BY			
PAREA1	0	0.51464E-08	460594.7	3763325.5	269.3	3.00	33	0.00	YES	NO

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 13:50:19

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

ALL PAREA1 ,

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 13:50:19

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
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-----	-----	-----
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2492442.	PAREA1	,
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*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 13:50:19

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***

(METERS)

460248.6, 460298.6, 460348.6, 460398.6, 460448.6, 460498.6, 460548.6, 460598.6, 460648.6, 460698.6,
460748.6, 460798.6, 460848.6, 460898.6, 460948.6, 460998.6, 461048.6, 461098.6, 461148.6, 461198.6,
461248.6, 461298.6, 461348.6, 461398.6, 461448.6,

*** Y-COORDINATES OF GRID ***

(METERS)

3763022.4, 3763072.4, 3763122.4, 3763172.4, 3763222.4, 3763272.4, 3763322.4, 3763372.4, 3763422.4, 3763472.4,
3763522.4, 3763572.4, 3763622.4, 3763672.4, 3763722.4, 3763772.4, 3763822.4, 3763872.4, 3763922.4, 3763972.4,
3764022.4,

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 460248.59 460298.59 460348.59 460398.59 460448.59 460498.59 460548.59 460598.59 460648.59

3764022.45	283.10	283.50	282.90	281.10	280.90	280.50	279.60	278.70	278.50
3763972.45	281.60	281.00	280.20	279.60	279.50	279.50	279.30	279.60	278.60
3763922.45	280.50	279.60	278.90	278.60	279.00	279.00	278.40	278.20	277.80
3763872.45	279.90	279.00	278.30	278.30	278.90	279.00	278.30	277.10	277.30
3763822.45	278.70	278.70	278.20	278.60	279.70	280.30	278.40	276.40	277.20
3763772.45	277.70	278.30	279.30	281.50	283.90	284.40	280.40	276.90	274.50
3763722.45	277.80	280.20	283.50	287.50	293.00	294.50	286.60	276.90	274.60
3763672.45	279.40	283.10	288.40	295.00	306.00	306.10	289.70	277.90	274.20
3763622.45	281.80	287.50	293.90	304.40	314.30	304.40	288.90	279.90	273.50
3763572.45	283.90	290.30	301.80	311.30	306.50	295.50	282.50	277.20	272.90
3763522.45	284.10	291.10	300.50	308.80	299.60	287.30	280.40	274.60	272.10
3763472.45	281.90	287.90	294.00	302.30	295.00	280.80	276.40	272.20	271.00
3763422.45	279.40	280.10	283.80	289.90	284.10	276.90	273.20	270.70	270.00
3763372.45	274.50	274.80	280.30	280.50	280.20	274.70	270.50	269.60	269.20
3763322.45	275.10	273.10	273.30	273.40	272.50	278.20	271.90	269.70	269.70
3763272.45	273.20	272.00	270.60	270.20	268.50	267.80	268.30	271.50	275.40
3763222.45	272.90	270.10	269.20	265.90	265.50	265.90	265.90	266.00	265.70
3763172.45	275.20	271.20	267.60	264.80	264.20	264.30	264.60	264.70	264.70
3763122.45	275.00	274.00	266.10	264.30	263.30	263.20	263.40	263.70	263.90
3763072.45	271.80	268.80	265.30	263.00	262.30	262.60	262.70	262.90	262.90
3763022.45	274.20	267.60	264.50	262.30	260.90	261.10	261.90	262.10	261.70

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 460698.59 460748.59 460798.59 460848.59 460898.59 460948.59 460998.59 461048.59 461098.59

3764022.45	278.00	278.30	281.20	280.00	279.00	278.60	278.50	278.30	278.30
3763972.45	278.40	277.70	277.80	278.30	279.10	277.30	277.00	277.50	277.20
3763922.45	277.10	277.90	277.70	277.00	277.20	276.20	276.20	276.30	276.30
3763872.45	276.80	276.30	276.40	276.80	276.80	275.30	276.10	276.60	276.80
3763822.45	275.30	276.40	275.70	275.50	276.00	274.80	275.30	275.50	275.90
3763772.45	274.40	275.20	274.70	275.40	274.90	274.70	274.50	274.50	275.00
3763722.45	273.60	273.60	273.60	274.00	274.20	273.10	273.30	273.50	274.10
3763672.45	273.60	272.80	272.70	272.60	273.00	272.80	272.60	272.60	273.10
3763622.45	272.80	272.50	271.90	271.90	271.90	271.70	271.80	271.70	272.10
3763572.45	272.10	271.60	270.80	270.70	270.80	270.60	270.60	270.70	271.00
3763522.45	271.30	270.90	270.20	269.70	269.80	269.60	269.60	269.80	270.30
3763472.45	270.40	270.20	269.50	269.20	268.90	268.90	269.00	269.30	269.70
3763422.45	269.40	269.30	269.00	268.70	268.40	268.70	268.60	268.50	268.70
3763372.45	268.80	268.50	268.50	268.00	267.30	267.00	266.60	266.70	267.50
3763322.45	268.10	267.60	267.50	266.70	266.30	266.00	265.90	265.90	265.80
3763272.45	274.30	269.60	265.90	265.80	265.50	265.30	265.10	265.10	265.20
3763222.45	265.80	269.90	271.30	269.30	265.30	264.50	264.20	263.80	264.40
3763172.45	264.70	263.90	264.10	264.40	267.40	267.30	265.30	263.10	263.00
3763122.45	264.10	263.00	263.20	262.60	262.40	262.00	263.60	266.90	267.50
3763072.45	263.30	262.00	262.10	261.40	261.40	261.30	261.50	262.30	261.40
3763022.45	261.50	261.50	260.80	260.40	260.20	260.10	260.60	261.40	260.60

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)						
(METERS)	461148.59	461198.59	461248.59	461298.59	461348.59	461398.59	461448.59

3764022.45	279.90	279.40	279.70	281.20	283.50	285.50	294.70
3763972.45	278.10	279.10	279.20	280.20	282.50	284.70	292.90
3763922.45	277.90	278.60	278.70	279.20	281.40	283.00	286.80
3763872.45	275.70	277.50	277.90	277.90	281.20	283.00	287.00
3763822.45	275.60	275.40	277.30	277.40	279.70	280.20	284.10
3763772.45	274.90	274.60	275.00	276.10	277.60	277.60	282.50
3763722.45	274.20	273.70	273.90	275.90	276.20	282.50	282.90
3763672.45	273.30	272.80	273.20	275.50	276.80	278.80	282.30
3763622.45	272.40	272.30	272.10	274.30	275.80	281.20	282.70
3763572.45	271.40	271.60	271.70	273.20	275.40	284.10	281.70
3763522.45	270.80	271.10	270.70	271.30	272.50	280.80	280.30
3763472.45	270.20	270.60	270.10	270.60	270.80	276.00	275.40
3763422.45	269.30	269.30	269.20	269.50	269.50	270.80	272.70
3763372.45	267.60	267.70	267.90	268.00	268.40	270.00	272.10
3763322.45	266.20	266.80	266.70	266.80	267.30	268.70	271.30
3763272.45	265.30	265.50	265.80	266.00	266.30	267.70	269.90
3763222.45	264.70	264.60	264.80	265.10	265.60	266.10	268.20
3763172.45	263.20	263.40	263.90	264.40	264.70	265.10	266.10
3763122.45	264.30	262.00	263.00	263.50	263.60	264.00	264.70
3763072.45	266.50	268.50	264.30	262.60	262.50	262.90	263.50
3763022.45	260.60	260.90	262.70	267.40	267.10	264.30	262.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

[460554.3, 3763371.5, 270.4, 676.9, 0.0);	[460560.1, 3763384.3, 270.6, 676.9, 0.0);
[460569.3, 3763398.6, 270.8, 676.9, 0.0);	[460577.0, 3763410.3, 271.0, 676.9, 0.0);
[460583.8, 3763422.7, 271.3, 676.9, 0.0);	[460592.5, 3763436.2, 271.5, 676.9, 0.0);
[460599.9, 3763448.4, 271.7, 676.9, 0.0);	[460609.0, 3763459.7, 271.7, 676.9, 0.0);
[460615.7, 3763474.1, 271.8, 676.9, 0.0);	[460624.2, 3763487.8, 271.9, 676.9, 0.0);
[460631.9, 3763499.6, 272.0, 676.9, 0.0);	[460640.2, 3763510.6, 272.0, 676.9, 0.0);
[460647.7, 3763522.3, 272.1, 676.9, 0.0);	[460655.0, 3763537.5, 272.3, 676.9, 0.0);
[460665.0, 3763550.5, 272.3, 676.9, 0.0);	[460675.5, 3763566.9, 272.4, 676.9, 0.0);
[460703.0, 3763619.1, 272.6, 676.9, 0.0);	[460731.5, 3763664.3, 273.1, 676.9, 0.0);
[460785.0, 3763680.9, 272.9, 676.9, 0.0);	[460807.8, 3763666.4, 272.6, 676.9, 0.0);
[460850.0, 3763644.4, 272.3, 676.9, 0.0);	[460894.4, 3763618.4, 271.8, 676.9, 0.0);
[461091.1, 3763516.9, 270.1, 676.9, 0.0);	[461145.8, 3763507.9, 270.5, 676.9, 0.0);
[461184.5, 3763477.5, 271.1, 676.9, 0.0);	[461162.5, 3763367.6, 267.5, 676.9, 0.0);
[461140.0, 3763364.0, 267.2, 676.9, 0.0);	[461092.7, 3763359.2, 266.7, 676.9, 0.0);
[460839.8, 3763325.2, 267.0, 676.9, 0.0);	[460808.9, 3763312.6, 266.8, 676.9, 0.0);
[460789.6, 3763307.3, 266.6, 676.9, 0.0);	[460769.9, 3763305.0, 266.6, 676.9, 0.0);
[460747.6, 3763301.8, 266.8, 676.9, 0.0);	[460662.5, 3763329.8, 268.5, 676.9, 0.0);

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 111111

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: ..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.sfc Met Version: 22112
 Profile file: ..\..\00942516_Air Quality Data\kral_sfc_pfl\KRAL_V11_trimmed.pfl
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 3171 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	ZO	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
19	01	01	1	01	-53.7	0.548	-9.000	-9.000	-999.	974.	330.7	0.12	0.58	1.00	6.14	44.	10.1	281.4	2.0			
19	01	01	1	02	-48.4	0.493	-9.000	-9.000	-999.	836.	267.9	0.12	0.58	1.00	5.55	44.	10.1	281.4	2.0			
19	01	01	1	03	-32.2	0.327	-9.000	-9.000	-999.	472.	117.6	0.12	0.58	1.00	3.74	38.	10.1	280.3	2.0			
19	01	01	1	04	-14.7	0.169	-9.000	-9.000	-999.	190.	31.3	0.09	0.58	1.00	2.16	71.	10.1	279.8	2.0			
19	01	01	1	05	-36.7	0.372	-9.000	-9.000	-999.	544.	151.9	0.12	0.58	1.00	4.23	38.	10.1	279.8	2.0			
19	01	01	1	06	-51.0	0.517	-9.000	-9.000	-999.	891.	293.6	0.12	0.58	1.00	5.80	35.	10.1	280.3	2.0			
19	01	01	1	07	-59.7	0.605	-9.000	-9.000	-999.	1126.	402.0	0.11	0.58	1.00	6.91	29.	10.1	280.3	2.0			
19	01	01	1	08	-36.5	0.495	-9.000	-9.000	-999.	848.	293.2	0.11	0.58	0.53	5.67	12.	10.1	280.9	2.0			
19	01	01	1	09	19.5	0.330	0.399	0.005	115.	478.	-162.7	0.11	0.58	0.31	3.56	20.	10.1	282.5	2.0			
19	01	01	1	10	54.7	0.536	0.694	0.005	216.	942.	-249.1	0.11	0.58	0.24	5.87	27.	10.1	283.8	2.0			
19	01	01	1	11	79.0	0.654	0.988	0.005	431.	1268.	-313.1	0.11	0.58	0.21	7.20	17.	10.1	284.2	2.0			
19	01	01	1	12	90.7	0.632	1.268	0.005	794.	1209.	-246.0	0.11	0.58	0.20	6.92	13.	10.1	284.8	2.0			
19	01	01	1	13	89.3	0.608	1.309	0.005	886.	1141.	-222.3	0.11	0.58	0.20	6.64	16.	10.1	285.3	2.0			
19	01	01	1	14	74.8	0.549	1.265	0.005	955.	982.	-195.3	0.11	0.58	0.22	5.97	13.	10.1	285.3	2.0			
19	01	01	1	15	47.9	0.620	1.106	0.005	997.	1170.	-439.1	0.11	0.58	0.25	6.87	16.	10.1	285.3	2.0			
19	01	01	1	16	10.9	0.545	0.678	0.005	1006.	973.	-1306.5	0.11	0.58	0.34	6.11	22.	10.1	284.8	2.0			
19	01	01	1	17	-36.8	0.408	-9.000	-9.000	-999.	642.	183.0	0.11	0.58	0.62	4.73	14.	10.1	283.8	2.0			
19	01	01	1	18	-38.4	0.392	-9.000	-9.000	-999.	590.	169.0	0.11	0.58	1.00	4.56	20.	10.1	282.5	2.0			
19	01	01	1	19	-28.7	0.292	-9.000	-9.000	-999.	385.	93.9	0.11	0.58	1.00	3.44	18.	10.1	282.5	2.0			
19	01	01	1	20	-24.6	0.250	-9.000	-9.000	-999.	301.	68.7	0.12	0.58	1.00	2.89	44.	10.1	282.0	2.0			
19	01	01	1	21	-11.6	0.148	-9.000	-9.000	-999.	142.	25.0	0.09	0.58	1.00	1.92	81.	10.1	280.3	2.0			
19	01	01	1	22	-7.9	0.120	-9.000	-9.000	-999.	100.	19.5	0.07	0.58	1.00	1.67	208.	10.1	279.2	2.0			
19	01	01	1	23	-16.1	0.176	-9.000	-9.000	-999.	178.	34.2	0.09	0.58	1.00	2.25	82.	10.1	279.2	2.0			
19	01	01	1	24	-23.1	0.233	-9.000	-9.000	-999.	270.	59.9	0.09	0.58	1.00	2.93	63.	10.1	280.3	2.0			

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 10.1 1 44. 6.14 281.5 99.0 -99.00 -99.00

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

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD	X-COORD (METERS)								
(METERS)	460248.59	460298.59	460348.59	460398.59	460448.59	460498.59	460548.59	460598.59	460648.59

3764022.45	0.00064	0.00066	0.00068	0.00071	0.00073	0.00074	0.00075	0.00076	0.00076
3763972.45	0.00072	0.00076	0.00079	0.00083	0.00085	0.00087	0.00089	0.00089	0.00090
3763922.45	0.00081	0.00087	0.00092	0.00096	0.00100	0.00104	0.00107	0.00109	0.00110
3763872.45	0.00091	0.00098	0.00105	0.00112	0.00118	0.00124	0.00130	0.00135	0.00137
3763822.45	0.00103	0.00111	0.00121	0.00130	0.00139	0.00148	0.00160	0.00171	0.00175
3763772.45	0.00115	0.00126	0.00137	0.00147	0.00155	0.00167	0.00195	0.00220	0.00239
3763722.45	0.00128	0.00140	0.00149	0.00153	0.00146	0.00153	0.00211	0.00290	0.00333
3763672.45	0.00140	0.00151	0.00153	0.00144	0.00131	0.00150	0.00238	0.00383	0.00500
3763622.45	0.00151	0.00155	0.00148	0.00135	0.00147	0.00184	0.00302	0.00492	0.00765
3763572.45	0.00159	0.00159	0.00137	0.00145	0.00179	0.00254	0.00467	0.00714	0.01169
3763522.45	0.00171	0.00169	0.00155	0.00166	0.00226	0.00384	0.00621	0.01019	0.01838
3763472.45	0.00188	0.00197	0.00197	0.00198	0.00282	0.00552	0.00852	0.01460	0.02962
3763422.45	0.00205	0.00243	0.00276	0.00288	0.00429	0.00689	0.01117	0.02203	0.03625
3763372.45	0.00221	0.00265	0.00309	0.00384	0.00500	0.00770	0.01396	0.02789	0.03573
3763322.45	0.00226	0.00270	0.00328	0.00409	0.00530	0.00685	0.01142	0.01618	0.01579
3763272.45	0.00226	0.00266	0.00316	0.00382	0.00465	0.00565	0.00658	0.00667	0.00591
3763222.45	0.00218	0.00251	0.00290	0.00330	0.00373	0.00411	0.00427	0.00414	0.00384
3763172.45	0.00208	0.00228	0.00253	0.00275	0.00294	0.00305	0.00302	0.00287	0.00265
3763122.45	0.00189	0.00201	0.00216	0.00227	0.00232	0.00232	0.00224	0.00211	0.00194
3763072.45	0.00165	0.00175	0.00182	0.00185	0.00185	0.00181	0.00172	0.00161	0.00148
3763022.45	0.00145	0.00151	0.00153	0.00152	0.00149	0.00143	0.00136	0.00126	0.00115

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD	X-COORD (METERS)								
(METERS)	460698.59	460748.59	460798.59	460848.59	460898.59	460948.59	460998.59	461048.59	461098.59

3764022.45	0.00076	0.00075	0.00071	0.00069	0.00067	0.00064	0.00062	0.00060	0.00058
3763972.45	0.00090	0.00089	0.00086	0.00083	0.00079	0.00076	0.00073	0.00071	0.00068
3763922.45	0.00110	0.00107	0.00104	0.00100	0.00096	0.00092	0.00089	0.00085	0.00081
3763872.45	0.00137	0.00136	0.00131	0.00125	0.00119	0.00115	0.00109	0.00104	0.00098
3763822.45	0.00179	0.00176	0.00170	0.00162	0.00154	0.00148	0.00139	0.00131	0.00124
3763772.45	0.00247	0.00244	0.00236	0.00222	0.00211	0.00199	0.00187	0.00176	0.00164
3763722.45	0.00373	0.00386	0.00372	0.00351	0.00330	0.00310	0.00288	0.00267	0.00247
3763672.45	0.00633	0.00878	0.00907	0.00755	0.00637	0.00551	0.00483	0.00428	0.00381
3763622.45	0.01201	0.03129	0.03487	0.02454	0.01489	0.01093	0.00865	0.00715	0.00604
3763572.45	0.02546	0.03896	0.04080	0.04071	0.03616	0.02408	0.01609	0.01210	0.00959
3763522.45	0.03618	0.04313	0.04528	0.04594	0.04515	0.04183	0.03383	0.02249	0.01631
3763472.45	0.04078	0.04536	0.04719	0.04746	0.04620	0.04491	0.04293	0.04055	0.03409
3763422.45	0.04241	0.04485	0.04443	0.04251	0.03879	0.03419	0.02931	0.02671	0.02164
3763372.45	0.03604	0.03248	0.02595	0.01972	0.01581	0.01337	0.01156	0.00992	0.00843
3763322.45	0.01323	0.01138	0.00993	0.00868	0.00770	0.00689	0.00616	0.00547	0.00493
3763272.45	0.00583	0.00557	0.00505	0.00465	0.00428	0.00394	0.00363	0.00335	0.00315
3763222.45	0.00354	0.00331	0.00305	0.00284	0.00261	0.00243	0.00229	0.00217	0.00210
3763172.45	0.00242	0.00219	0.00201	0.00185	0.00174	0.00164	0.00155	0.00148	0.00145
3763122.45	0.00177	0.00159	0.00145	0.00132	0.00122	0.00114	0.00110	0.00108	0.00106
3763072.45	0.00134	0.00121	0.00110	0.00100	0.00092	0.00087	0.00083	0.00080	0.00079
3763022.45	0.00105	0.00095	0.00086	0.00079	0.00073	0.00068	0.00065	0.00063	0.00062

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: GRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD	X-COORD (METERS)						
(METERS)	461148.59	461198.59	461248.59	461298.59	461348.59	461398.59	461448.59

3764022.45	0.00055	0.00054	0.00052	0.00049	0.00047	0.00044	0.00037
3763972.45	0.00065	0.00062	0.00060	0.00057	0.00054	0.00050	0.00043
3763922.45	0.00077	0.00073	0.00070	0.00067	0.00063	0.00059	0.00054
3763872.45	0.00094	0.00088	0.00084	0.00080	0.00074	0.00069	0.00063
3763822.45	0.00117	0.00111	0.00103	0.00098	0.00091	0.00087	0.00078
3763772.45	0.00154	0.00146	0.00137	0.00128	0.00119	0.00114	0.00101
3763722.45	0.00230	0.00215	0.00201	0.00174	0.00163	0.00139	0.00131
3763672.45	0.00343	0.00312	0.00285	0.00245	0.00222	0.00201	0.00178
3763622.45	0.00521	0.00457	0.00406	0.00361	0.00311	0.00264	0.00238
3763572.45	0.00785	0.00662	0.00568	0.00490	0.00421	0.00338	0.00317
3763522.45	0.01244	0.00967	0.00774	0.00634	0.00532	0.00446	0.00394
3763472.45	0.02102	0.01253	0.00909	0.00712	0.00582	0.00506	0.00436
3763422.45	0.01426	0.01037	0.00806	0.00654	0.00546	0.00466	0.00403
3763372.45	0.00753	0.00672	0.00591	0.00517	0.00454	0.00401	0.00356
3763322.45	0.00460	0.00435	0.00409	0.00380	0.00351	0.00323	0.00296
3763272.45	0.00302	0.00292	0.00283	0.00273	0.00262	0.00250	0.00237
3763222.45	0.00205	0.00202	0.00199	0.00197	0.00194	0.00189	0.00184
3763172.45	0.00144	0.00143	0.00143	0.00144	0.00143	0.00143	0.00142
3763122.45	0.00105	0.00105	0.00106	0.00106	0.00107	0.00108	0.00109
3763072.45	0.00080	0.00080	0.00080	0.00081	0.00082	0.00083	0.00084
3763022.45	0.00062	0.00062	0.00062	0.00063	0.00064	0.00065	0.00066

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
460554.29	3763371.50	0.01538	460560.15	3763384.29	0.01587
460569.33	3763398.64	0.01670	460577.00	3763410.32	0.01725
460583.84	3763422.67	0.01736	460592.52	3763436.18	0.01770
460599.86	3763448.37	0.01781	460609.04	3763459.71	0.01851
460615.72	3763474.06	0.01798	460624.23	3763487.75	0.01798
460631.90	3763499.59	0.01800	460640.25	3763510.61	0.01828
460647.73	3763522.32	0.01817	460654.96	3763537.51	0.01731
460664.97	3763550.53	0.01745	460675.46	3763566.93	0.01700
460702.95	3763619.13	0.01330	460731.52	3763664.34	0.00903
460785.05	3763680.86	0.00725	460807.84	3763666.39	0.01047
460850.04	3763644.45	0.01379	460894.41	3763618.41	0.01662
461091.14	3763516.86	0.01857	461145.81	3763507.91	0.01536
461184.49	3763477.54	0.01393	461162.47	3763367.61	0.00695
461140.04	3763364.00	0.00698	461092.66	3763359.17	0.00729
460839.82	3763325.19	0.00924	460808.89	3763312.56	0.00832
460789.60	3763307.31	0.00805	460769.88	3763305.04	0.00813
460747.61	3763301.78	0.00813	460662.48	3763329.83	0.01803

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL	1ST HIGHEST VALUE IS	0.04746 AT (460848.59, 3763472.45, 269.20, 676.90, 0.00)	GC GRID
	2ND HIGHEST VALUE IS	0.04719 AT (460798.59, 3763472.45, 269.50, 676.90, 0.00)	GC GRID
	3RD HIGHEST VALUE IS	0.04620 AT (460898.59, 3763472.45, 268.90, 676.90, 0.00)	GC GRID
	4TH HIGHEST VALUE IS	0.04594 AT (460848.59, 3763522.45, 269.70, 676.90, 0.00)	GC GRID
	5TH HIGHEST VALUE IS	0.04536 AT (460748.59, 3763472.45, 270.20, 676.90, 0.00)	GC GRID
	6TH HIGHEST VALUE IS	0.04528 AT (460798.59, 3763522.45, 270.20, 676.90, 0.00)	GC GRID
	7TH HIGHEST VALUE IS	0.04515 AT (460898.59, 3763522.45, 269.80, 676.90, 0.00)	GC GRID
	8TH HIGHEST VALUE IS	0.04491 AT (460948.59, 3763472.45, 268.90, 676.90, 0.00)	GC GRID
	9TH HIGHEST VALUE IS	0.04485 AT (460748.59, 3763422.45, 269.30, 676.90, 0.00)	GC GRID
	10TH HIGHEST VALUE IS	0.04443 AT (460798.59, 3763422.45, 269.00, 676.90, 0.00)	GC GRID

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

*** AERMOD - VERSION 24142 *** ** O:\0018-0099\00942516\00942516_AERMOD\Model - Unmitigated\IETTC Unmi *** 10/29/25

*** AERMET - VERSION 22112 *** ** *** 13:50:19

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN 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 1829 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 852 Calm Hours Identified

A Total of 977 Missing Hours Identified (2.23 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

ME W186 81 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 81 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***



Appendix D

Health Risk Calculation Worksheets

Construction Carcinogenic and Non-Carcinogenic Risks - 3rd Trimester Exposure Scenario (0.25-Year)

Project:	Inland Empire Technical Trade Center Buildings 1A & 1B	Engineer:	B. Morrison	Date:	10/29/2025
				JN:	0094-2025-16

Exposure Factors	
Exposure Frequency ¹ :	66 days/year
Exposure Duration:	0.25 years
Daily Breathing Rate ² :	361 L/kg BW-day
Age Sensitivity Factor ³ :	10
Fraction of Time at Home (FAH):	1
Averaging Time (Cancer):	25,550 days
Averaging Time (Non-Cancer):	91.25 days

¹ Exposure frequency is based on the total number of active construction days during the first year of construction.
² Source: OEHHA Air Toxics Hot Spots Program Guidance Manual, Table B.3: Age Sensitivity Factors by Age Group for Cancer Risk Assessment.
³ Source: OEHHA Air Toxics Hot Spots Program Guidance Manual, Table 5.6: Point Estimates of Residential Daily Breathing Rates for 3rd Trimester, 0<2, 2<9, 2<16, 16<30, and 16-70 years (L/kg BW-day).

$$\text{Cancer Risk} = \text{DPM Concentration} \times \text{CPF} \times \text{DBR} \times \text{ED} \times \text{EF} \times \text{ASF} \times \text{FAH} \div 25550$$

AERMOD Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m ³) (b)	(mg/m ³) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m ³) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.02572	2.57E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0051
2	0.02654	2.65E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0053
3	0.02791	2.79E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0056
4	0.02883	2.88E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0058
5	0.02902	2.90E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0058
6	0.02960	2.96E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0059
7	0.02978	2.98E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0060
8	0.03095	3.10E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0062
9	0.03007	3.01E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0060
10	0.03008	3.01E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0060
11	0.03011	3.01E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0060
12	0.03059	3.06E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0061
13	0.03040	3.04E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0061
14	0.02897	2.90E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0058
15	0.02924	2.92E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0058
16	0.02855	2.86E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0057
17	0.02252	2.25E-05	1	DPM	1.10E+00	0.06	5.00E+00	1.43E-03	0.0045
18	0.01533	1.53E-05	1	DPM	1.10E+00	0.04	5.00E+00	1.43E-03	0.0031
19	0.01231	1.23E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0025
20	0.01761	1.76E-05	1	DPM	1.10E+00	0.05	5.00E+00	1.43E-03	0.0035
21	0.02311	2.31E-05	1	DPM	1.10E+00	0.06	5.00E+00	1.43E-03	0.0046
22	0.02780	2.78E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0056
23	0.03104	3.10E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0062
24	0.02568	2.57E-05	1	DPM	1.10E+00	0.07	5.00E+00	1.43E-03	0.0051
25	0.02329	2.33E-05	1	DPM	1.10E+00	0.06	5.00E+00	1.43E-03	0.0047
26	0.01162	1.16E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0023
27	0.01166	1.17E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0023
28	0.01219	1.22E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0024
29	0.01544	1.54E-05	1	DPM	1.10E+00	0.04	5.00E+00	1.43E-03	0.0031
30	0.01390	1.39E-05	1	DPM	1.10E+00	0.04	5.00E+00	1.43E-03	0.0028
31	0.01346	1.35E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0027
32	0.01359	1.36E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0027
33	0.01359	1.36E-05	1	DPM	1.10E+00	0.03	5.00E+00	1.43E-03	0.0027
34	0.03013	3.01E-05	1	DPM	1.10E+00	0.08	5.00E+00	1.43E-03	0.0060

Construction Carcinogenic and Non-Carcinogenic Risks - Infant Exposure Scenario (2-Year)

Project:	Inland Empire Technical Trade Center Buildings 1A & 1B	Engineer:	B. Morrison	Date:	10/29/2025
				JN:	0094-2025-16

Exposure Factors	
Exposure Frequency ¹ :	260 days/year
Exposure Duration:	2 years
Daily Breathing Rate ² :	1090 L/kg BW-day
Age Sensitivity Factor ³ :	10
Fraction of Time at Home (FAH):	1
Averaging Time (Cancer):	25,550 days
Averaging Time (Non-Cancer):	730 days

¹ Exposure frequency is based on the total number of active construction days during the first year of construction.
² Source: OEHHA Air Toxics Hot Spots Program Guidance Manual, Table B.3: Age Sensitivity Factors by Age Group for Cancer Risk Assessment
³ Source: OEHHA Air Toxics Hot Spots Program Guidance Manual, Table 5.6: Point Estimates of Residential Daily Breathing Rates for 3rd Trimester, 0<2, 2<9, 2<16, 16<30, and 16-70 years (L/kg BW-day).

Cancer Risk = DPM Concentration × CPF × DBR × ED × EF × ASF × FAH ÷ 25550

AERMOD Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m ³) (b)	(mg/m ³) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m ³) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.01538	1.54E-05	1	DPM	1.10E+00	3.75	5.00E+00	1.43E-03	0.0031
2	0.01587	1.59E-05	1	DPM	1.10E+00	3.87	5.00E+00	1.43E-03	0.0032
3	0.01670	1.67E-05	1	DPM	1.10E+00	4.08	5.00E+00	1.43E-03	0.0033
4	0.01725	1.73E-05	1	DPM	1.10E+00	4.21	5.00E+00	1.43E-03	0.0035
5	0.01736	1.74E-05	1	DPM	1.10E+00	4.24	5.00E+00	1.43E-03	0.0035
6	0.01770	1.77E-05	1	DPM	1.10E+00	4.32	5.00E+00	1.43E-03	0.0035
7	0.01781	1.78E-05	1	DPM	1.10E+00	4.35	5.00E+00	1.43E-03	0.0036
8	0.01851	1.85E-05	1	DPM	1.10E+00	4.52	5.00E+00	1.43E-03	0.0037
9	0.01798	1.80E-05	1	DPM	1.10E+00	4.39	5.00E+00	1.43E-03	0.0036
10	0.01798	1.80E-05	1	DPM	1.10E+00	4.39	5.00E+00	1.43E-03	0.0036
11	0.01800	1.80E-05	1	DPM	1.10E+00	4.39	5.00E+00	1.43E-03	0.0036
12	0.01828	1.83E-05	1	DPM	1.10E+00	4.46	5.00E+00	1.43E-03	0.0037
13	0.01817	1.82E-05	1	DPM	1.10E+00	4.43	5.00E+00	1.43E-03	0.0036
14	0.01731	1.73E-05	1	DPM	1.10E+00	4.22	5.00E+00	1.43E-03	0.0035
15	0.01745	1.75E-05	1	DPM	1.10E+00	4.26	5.00E+00	1.43E-03	0.0035
16	0.01700	1.70E-05	1	DPM	1.10E+00	4.15	5.00E+00	1.43E-03	0.0034
17	0.01330	1.33E-05	1	DPM	1.10E+00	3.25	5.00E+00	1.43E-03	0.0027
18	0.00903	9.03E-06	1	DPM	1.10E+00	2.20	5.00E+00	1.43E-03	0.0018
19	0.00725	7.25E-06	1	DPM	1.10E+00	1.77	5.00E+00	1.43E-03	0.0015
20	0.01047	1.05E-05	1	DPM	1.10E+00	2.55	5.00E+00	1.43E-03	0.0021
21	0.01379	1.38E-05	1	DPM	1.10E+00	3.37	5.00E+00	1.43E-03	0.0028
22	0.01662	1.66E-05	1	DPM	1.10E+00	4.06	5.00E+00	1.43E-03	0.0033
23	0.01857	1.86E-05	1	DPM	1.10E+00	4.53	5.00E+00	1.43E-03	0.0037
24	0.01536	1.54E-05	1	DPM	1.10E+00	3.75	5.00E+00	1.43E-03	0.0031
25	0.01393	1.39E-05	1	DPM	1.10E+00	3.40	5.00E+00	1.43E-03	0.0028
26	0.00695	6.95E-06	1	DPM	1.10E+00	1.70	5.00E+00	1.43E-03	0.0014
27	0.00698	6.98E-06	1	DPM	1.10E+00	1.70	5.00E+00	1.43E-03	0.0014
28	0.00729	7.29E-06	1	DPM	1.10E+00	1.78	5.00E+00	1.43E-03	0.0015
29	0.00924	9.24E-06	1	DPM	1.10E+00	2.25	5.00E+00	1.43E-03	0.0018
30	0.00832	8.32E-06	1	DPM	1.10E+00	2.03	5.00E+00	1.43E-03	0.0017
31	0.00805	8.05E-06	1	DPM	1.10E+00	1.96	5.00E+00	1.43E-03	0.0016
32	0.00813	8.13E-06	1	DPM	1.10E+00	1.98	5.00E+00	1.43E-03	0.0016
33	0.00813	8.13E-06	1	DPM	1.10E+00	1.98	5.00E+00	1.43E-03	0.0016
34	0.01803	1.80E-05	1	DPM	1.10E+00	4.40	5.00E+00	1.43E-03	0.0036

Cumulative Risk - Construction

Project:	Inland Empire Technical Trade Center Buildings 1A & 1B	Engineer:	B. Morrison	Date:	10/29/2025
		JN:			0094-2025-16

Sensitive Receptor Location	AERMOD Receptor ID	Cumulative Cancer Risk (per one million)	Maximum Non-Cancer Hazard Index
1	1	3.8190	0.0051
	2	3.9407	0.0053
	3	4.1468	0.0056
	4	4.2833	0.0058
	5	4.3107	0.0058
	6	4.3951	0.0059
	7	4.4224	0.0060
	8	4.5962	0.0062
	9	4.4647	0.0060
	10	4.4647	0.0060
	11	4.4696	0.0060
	12	4.5392	0.0061
	13	4.5119	0.0061
	14	4.2983	0.0058
	15	4.3332	0.0058
	16	4.2216	0.0057
	17	3.3033	0.0045
	18	2.2428	0.0031
2	19	1.8007	0.0025
	20	2.6001	0.0035
	21	3.4243	0.0046
3	22	4.1270	0.0056
4	23	4.6111	0.0062
	24	3.8141	0.0051
	25	3.4590	0.0047
5	26	1.7258	0.0023
	27	1.7332	0.0023
	28	1.8102	0.0024
	29	2.2944	0.0031
	30	2.0659	0.0028
	31	1.9989	0.0027
	32	2.0188	0.0027
	33	2.0188	0.0027
	34	4.4770	0.0060
Maximum		4.6111	0.0062
SCAQMD Threshold		10	1
Exceeds Threshold?		No	No