

## Appendix B. Health Risk Assessment



# 5770 INDUSTRIAL PARKWAY

## Health Risk Assessment

### Prepared By:

ENVIRONMENT | PLANNING | DEVELOPMENT SOLUTIONS, INC.

2 Park Plaza, Suite 1120  
Irvine, CA 92614  
(949) 794-1180

Contact: Alex Garber  
[alex@epdsolutions.com](mailto:alex@epdsolutions.com)

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## Table of Contents

<b>1</b>	<b>INTRODUCTION</b> .....	<b>1</b>
1.1	Purpose of the Report.....	1
1.2	Conclusions.....	1
<b>2</b>	<b>HEALTH RISK ASSESSMENT</b> .....	<b>5</b>
2.1	Emission Inventory Development .....	5
2.2	Atmospheric Dispersion Methodology .....	8
2.3	Health Risk Estimation Methodology .....	13
2.4	Results of the Health Risk Assessment.....	16

## Figures

FIGURE 1:	PROJECT LOCATION .....	3
FIGURE 2:	PROJECT SITE PLAN .....	4
FIGURE 3:	LOCATIONS OF THE PROJECT ONSITE AND OFFSITE DPM EMISSION SOURCES.....	11
FIGURE 4:	LOCATIONS OF AIR DISPERSION MODEL RECEPTORS .....	12

## Tables

TABLE 1.	PROJECT DAILY OPERATIONAL VEHICLE TRIPS.....	7
TABLE 2.	DIESEL HEAVY-DUTY TRUCK VEHICLE FLEET .....	7
TABLE 3.	NUMBER OF DAILY PROJECT DIESEL TRUCK VEHICLE TRIPS.....	7
TABLE 4.	DPM DIESEL TRUCK EMISSION FACTORS .....	8
TABLE 5.	DPM EMISSIONS FROM PROJECT DIESEL EMISSION SOURCES.....	8
TABLE 6.	GENERAL MODELING ASSUMPTIONS .....	9
TABLE 4.	SUMMARY OF OPERATIONAL EMISSION SOURCE CONFIGURATION .....	10
TABLE 4.	DPM DIESEL TRUCK EMISSION FACTORS .....	15
TABLE 9.	SUMMARY OF PROPOSED PROJECT HEALTH RISK ASSESSMENT .....	17

## Appendices

APPENDIX A – ESTIMATION OF PROJECT OPERATIONAL DPM EMISSIONS
APPENDIX B – ESTIMATION OF CANCER RISK
APPENDIX C – AREMOD MODEL OUTPUT

## 1 INTRODUCTION

This Health Risk Assessment evaluates the potential impacts of the proposed 5770 Industrial Parkway project (proposed project). The project site is located at 5770 Industrial Parkway in the City of San Bernardino, within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The proposed project would build a 52,160 square foot Truck Terminal on a 11.07-acre site. The site is currently occupied by an approximately 34,000 square foot industrial building. For the purpose of this analysis, no credit was taken from the existing industrial building. The regional location and site plan can be found in *Figure 1* and *Figure 2*, respectively.

### 1.1 Purpose of the Report

To support the CEQA document for the proposed project, this report evaluates the potential health impacts to sensitive receptors from the operation of the Project. In particular, this health risk assessment (HRA) focuses on the emissions of diesel particulate matter (DPM) from the operation of the heavy-duty diesel vehicles that would serve the Project on a day-to-day basis. DPM has been identified by the California Air Resources Board (ARB) as a carcinogenic substance responsible for nearly 70 percent of the airborne cancer risk in California.<sup>1</sup> The estimated health risk impacts from the Project operation were compared to the health risk significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD) for use in CEQA assessments.

This HRA employed the following tools to estimate the health impacts of the Project:

- The California Air Resources Board (ARB) EMFAC2017 mobile emission source model<sup>2</sup> to calculate exhaust and idling emissions from mobile sources such as diesel trucks
- The U.S. Environmental Protection Agency (EPA) AMS/EPA Regulatory Model (AERMOD Version 21112) air dispersion model<sup>3</sup> to estimate DPM impacts to sensitive receptors)
- Cancer Risk Methodology from the California Office of Environmental Health Hazards Assessment (OEHHA)<sup>4</sup> and the SCAQMD<sup>5</sup>.

### 1.2 Conclusions

The conclusions for the HRA analysis are as follows:

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<sup>1</sup> California Air Resources Board 2017. Study Links California Regulations, Dramatic Declines in Cancer Risk from Exposure to Air Toxics. Website: <https://ww2.arb.ca.gov/news/study-links-california-regulations-dramatic-declines-cancer-risk-exposure-air-toxics>

<sup>2</sup> California Air Resources Board 2017. EMFAC2017 User's Guide. Website: [https://ww3.arb.ca.gov/msei/downloads/emfac2017\\_users\\_guide\\_final.pdf](https://ww3.arb.ca.gov/msei/downloads/emfac2017_users_guide_final.pdf)

<sup>3</sup> US Environmental Protection Agency 2021. AERMOD Quick Reference Guide. Website: <https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models>

<sup>4</sup> California Office of Environmental Health Hazards Assessment 2015. Air Toxics Hot Spots Program. Risk Assessment Guidelines. Guidance Manual for Preparation of Health Risk Assessments. Website: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>

<sup>5</sup> SCAQMD 2017. Risk Assessment Procedures for Rules 1401, 1401.1, 1402, and 212, Version 8.1/



The Project's operation would generate a lifetime cancer risk at the maximum impacted sensitive receptor as provided below. All cancer risks are less than the SCAQMD risk significance threshold of 10 in one million. Therefore, the operation of the Project would result in a less than significant project-level and cumulative health risk impact.

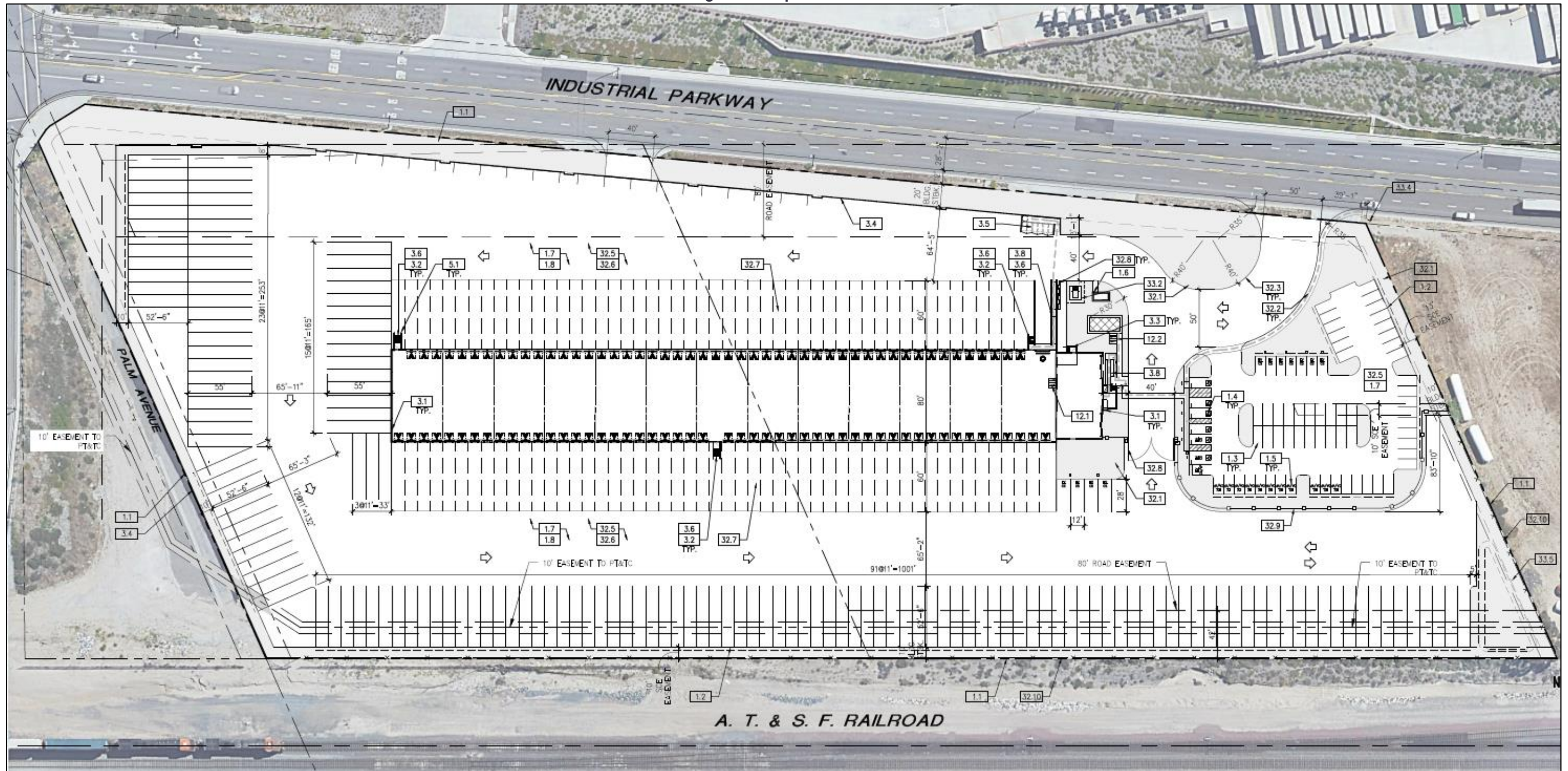
- Sensitive/residential receptor for the 30-year exposure duration: 0.1 in one million,
- Worker Receptor: 0.34 in one million

Figure 1: Project Location





Figure 2: Project Site Plan



## 2 HEALTH RISK ASSESSMENT

A HRA is a guide that helps determine whether the risks from current or future exposures to a toxic chemical or substance in the environment could affect the health of a population. In general, the quantification of risk from the development of a project depends on the following factors:

- Identification of the toxic air contaminants (TACs) that may be present in the air;
- Estimation of the amount of TACs released from all emission sources using emission models;
- Estimation of the airborne concentrations of TACs in the geographic area of concern using air dispersion models using information about emissions, source locations, weather, and other factors; and
- Estimation of the level of exposure to different concentrations of the TACs at different geographic locations and their consequential health impacts.

Thus, a HRA identifies the TACs that could affect public health, identifies the sources and their quantities of the TAC emissions, estimates where the emissions are transported by prevailing meteorological conditions, and assesses the consequential health impacts due to the identified exposures.

The State of California Office of Environmental Health Hazards Assessment (OEHHA) has developed methods for conducting health risk assessments. As defined under the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588 [Chapter 1252, Statutes of 1987, California Health and Safety Code Section 44306]),

*"A health risk assessment means a detailed, comprehensive analysis prepared pursuant to Section 44361 to evaluate and predict the dispersion of hazardous substances in the environment and the potential for exposure of human populations and to assess and quantify both the individual and population-wide health risks associated with those levels of exposure."*

Estimates of health risk and hazards that could potentially affect nearby sensitive receptors from the emissions of TACs were made using the methodology described below. The methodology included assumptions regarding emission source quantification, configurations and locations, receptor locations, air dispersion modeling, and health risk modeling. As noted above, this HRA focused on DPM emissions that the ARB has identified as the principal airborne carcinogenic substance in California. For purposes of this HRA, DPM was assumed to be comprised of PM<sub>10</sub> exhaust emissions.

### 2.1 Emission Inventory Development

The first requirement to carry out the HRA involves identifying and quantifying the sources of operational DPM air emissions from the Project, also termed an emission inventory. Each piece of equipment that emits DPM is identified in terms of its location and physical characteristics (release height, release temperature, etc.) and the chemical nature of the emissions. The predominant sources

of DPM emissions resulting from the operation of the Project derive from the heavy-duty diesel trucks that travel to and from and within the project site each day.

### Estimation of Mobile Source Emissions

Estimates of mobile source emissions are based on an emission factor and an activity level. An emission factor quantifies the amount of air emission for a specific activity, such as a gram of DPM (as PM<sub>10</sub> exhaust) emitted per vehicle mile traveled or per hour of idling, while the activity level is defined as the vehicle trip, number of miles traveled, or the amount of time a vehicle spends idling.

Emissions from motor vehicles can be characterized as follows:

- Combustion emissions (grams/mile or grams/hour for idling) resulting from the combustion of diesel fuel from heavy-duty trucks are the primary source of DPM emissions. The ARB EMFAC2017 mobile source emission model provides emission rates for user-defined heavy-duty truck speeds, fuel type, vehicle class, and model year.

The emissions of DPM from mobile sources are calculated as follows for running exhaust emissions and idling emissions:

$$\text{Running Exhaust Emissions}_{\text{RE}} = \sum_{i=1}^n (\text{VMT}_i \times \text{EF}_i)$$

$$\text{Idling Emissions}_{\text{ID}} = \sum_{i=1}^n (\text{IdNum}_i \times T_i \times \text{EF}_i)$$

Where:

Emissions<sub>RE</sub> = running exhaust emissions summed over all vehicle classes

Emissions<sub>ID</sub> = idling emissions summed over all vehicle classes

EF<sub>i</sub> = running exhaust emission factor for each vehicle type at a specific vehicle speed (g/mi)

EF<sub>idling</sub> = idling emission factor for each vehicle class (g/idle-hour)

VMT<sub>i</sub> = total number of vehicle miles summed over all vehicle classes (miles per day)

IdNum<sub>i</sub> = number of idling vehicles by vehicle class

T<sub>i</sub> = idling hours summed over all vehicle classes (hours per day)

n = number of vehicle classes

i = vehicle class

### Mobile Source Activity Levels

The motor vehicle activity levels were estimated using the vehicle trip information provided in the Project Trip Generation Report<sup>6</sup>. **Error! Reference source not found.** summarizes the daily motor vehicle trips from the Project based on information derived from the Project Trip Generation Report. The trip estimates shown in **Error! Reference source not found.** refer to both gasoline and diesel-fueled vehicles. **Error! Reference source not found.** presents the percentage of diesel vehicle trips by heavy-duty vehicle class for San Bernardino County in 2023, as derived from the EMFAC2017 mobile source emission model. Table 3 presents the number of heavy-duty diesel trips for the Project

<sup>6</sup> EPD Solutions, Inc. 2021. 5770 Industrial Parkway Traffic Impact Analysis



operation based on the total number of vehicle trips and the diesel vehicle percentages provided in the EMFAC2017 emission model. Calculation details can be found in Appendix B: Data Attachment.

**Table 1. Project Daily operational Vehicle Trips**

Area		Trip Rate	
52,160 square feet		4.96 trips/thousand square feet	
Fleet Mix	Percentage of Fleet	Vehicle Trips per Day	
Passenger Cars (LDA, LDT1, LDT2, MDV)	46.00	119	
2-axle Trucks (LHDT1, LHDT2)	6.10	16	
3-axle Trucks (MHDT)	13.90	36	
4-axle Trucks (HHDT)	34.00	88	
<b>Total</b>	<b>100</b>	<b>259</b>	

LDA: light duty automobile  
LDT1/LDT2: light duty trucks  
MDV: medium duty vehicle  
LHDT1/LHDT2: light heavy-duty trucks  
MHDT: medium heavy-duty trucks  
HHDT: heavy heavy-duty trucks

Source: 5770 Industrial Parkway Traffic Impact Analysis

**Table 2. Diesel Heavy-Duty Truck Vehicle Fleet**

Type of Vehicle	Diesel Fuel Vehicles (% of Vehicle Trips)
Light heavy-duty truck (LHDT1)	51.51
Light heavy-duty truck (LHDT2)	73.67
Medium heavy-duty truck (MHDT)	93.20
Heavy heavy-duty truck (HHDT)	99.98

**Table 3. Number of Daily Project Diesel Truck Vehicle Trips**

Type of Vehicle	Daily Diesel Vehicle Trips
Light heavy-duty truck (LHDT1)	6
Light heavy-duty truck (LHDT2)	2
Medium heavy-duty truck (MHDT)	33
Heavy heavy-duty truck (HHDT)	88
<b>Total</b>	<b>129</b>

The Project's operational heavy-duty diesel truck emissions were estimated for vehicle travel while on the Project site and offsite as the Project's vehicles travel on the local roadway network. All vehicles were assumed to travel at 5 miles per hour for travel within the Project site. For travel offsite, all heavy-duty trucks were assumed to travel at 25 miles per hour. Also, all heavy-duty diesel trucks were assumed to idle for 15 minutes per day at the loading docks, following the recommendations from the SCAQMD<sup>7</sup>. The Project was assumed to operate 24 hours per day.

<sup>7</sup> See for Example. SCAQMD 2011. Website: <http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2011/july/palm-industrial-distribution-center.pdf?sfvrsn=4>

The offsite vehicle trip distribution from the 5770 Industrial Parkway Traffic Impact Analysis was used. Five percent of vehicles travel northwest along Industrial Parkway. Ninety-five percent travel northwest along Industrial Parkway and turn right on Palm Avenue with sixty percent travel southbound on Interstate 215 and thirty-five percent travel northbound on Interstate 215.

#### DPM Truck Emission Factors

The DPM emission factors (as PM<sub>10</sub> exhaust) were derived from the ARB EMFAC2017 mobile source emission model in terms of grams per mile (grams/VMT) for the running exhaust emissions and grams per idle-hour (g/idle-hr) for idling emissions. The DPM emission factors were obtained for the County for the Project's opening year of 2023 and were assumed to remain constant for the entire duration of the cancer risk exposure (30 years). The use of 2023 emission factors would overstate potential impacts, since heavy-duty truck emissions are expected to decrease in future years due to the requirement to comply with existing and future emission regulations requiring vehicle fleet replacement with cleaner technologies.

**Error! Reference source not found.** presents the DPM (as PM<sub>10</sub> exhaust) emission factors that were applied in this HRA.

Table 5 presents the Project's operational DPM emissions from the various onsite and offsite operational DPM emission sources. Figure 3 provides the locations of the onsite and offsite DPM emission sources.

**Table 4. DPM Diesel Truck Emission Factors**

Type of Vehicle	Idling Emission Factor (g/idle-hr)	Running Exhaust @ 5 mph (g/mi)	Running Exhaust @ 25 mph (g/idle-hr)
Light heavy-duty truck (LHDT1)	0.789	0.065	0.024
Light heavy-duty truck (LHDT2)	0.800	0.061	0.024
Medium heavy-duty truck (MHDT)	0.035	0.006	0.003
Heavy heavy-duty truck (HHDT)	0.014	0.015	0.007

Source: PM<sub>10</sub> Exhaust Emission factors for San Bernardino County in 2023

**Table 5. DPM Emissions from Project Diesel Emission Sources**

Type of Vehicle	Daily Diesel Vehicle Trips
Light heavy-duty truck (LHDT1)	6
Light heavy-duty truck (LHDT2)	2
Medium heavy-duty truck (MHDT)	33
Heavy heavy-duty truck (HHDT)	88
<b>Total</b>	<b>129</b>

## 2.2 Atmospheric Dispersion Methodology

Atmospheric dispersion modeling is the mathematical simulation of how air pollutants disperse in the ambient atmosphere. The modeling is performed with computer programs that solve the mathematical equations and algorithms that simulate the movement and dispersion of air pollutants. The air dispersion model uses emissions from various emission sources and meteorological data such

as wind speed and direction, air temperature, and atmospheric mixing rates to estimate the air pollutant impacts at various geographic locations (referred to as receptor locations).

**Error! Reference source not found.** provides the general assumptions applied in the AERMOD model (Version 21112). **Error! Reference source not found.** summarizes the assumptions used to configure the various operational emission sources analyzed in this HRA. The meteorological data were taken from the SCAQMD Fontana monitoring station for the time period 2011–2013 and 2015–2016 and is considered representative of the meteorological conditions at the project site.

**Table 6. General Modeling Assumptions**

Feature	Assumption
Terrain Processing	Complex terrain; elevations were obtained for the project site using the EPA AERMAP terrain data pre-processor Version 18081; Data Set: NAD 7.5 minutes 9048_75m.dem
Land Use	Urban based on land use patterns surrounding the project site
Meteorological Data	Fontana, CA for the years 2011-2013 and 2015-2016 from the SCAQMD as representative of meteorological conditions at the project site
Receptor locations and heights	A network grid was used to include all existing residences and worker locations surrounding the project site. Additional receptors were located at nearby residences. Finally, receptors were placed at ground level.
Building	A building height of 36 feet was assumed as per the project description.
Population	San Bernardino County: 2,180,085



**Table 7. Summary of Operational Emission Source Configuration**

Emission Source Type	Geometric Configuration	Relevant Assumptions
Onsite Diesel Vehicle Traffic	Line Area Sources	<ul style="list-style-type: none"> <li>• Line source: height – 3.66 meters (12.0 feet) and plume height 6.22 meters (20.4 feet) (EPA Haul Roads Calculator);</li> <li>• Building access is via driveway along Industrial Parkway</li> <li>• Vehicle types: see <b>Error! Reference source not found.</b></li> <li>• Emission factor: ARB EMFAC 2017; DPM (as PM<sub>10</sub> exhaust) emission factors at 5 mph for 2023 for the County; no credit for future emission factor reductions, see <b>Error! Reference source not found..</b></li> <li>• Operations: 24/7</li> </ul>
Onsite Diesel Truck Idling	Line Area Source	<ul style="list-style-type: none"> <li>• Line source: two line sources, one for the east side of the building and one for the west side of the building.</li> <li>• 50% of trucks assumed to use each side.</li> <li>• Idle time: 15 minutes per truck per day</li> <li>• Vehicle types: heavy-duty diesel haul trucks</li> <li>• Emission factor: ARB EMFAC 2017; idle emission factor for 2023 for San Bernardino County; no credit for future emission factor reductions, see <b>Error! Reference source not found..</b></li> <li>• Operations: 24/7</li> </ul>
Offsite Vehicle Traffic	Line Area Source	<ul style="list-style-type: none"> <li>• Line source: height – 3.66 meters (12.0 feet) and plume height 6.22 meters (20.4 feet) (EPA Haul Roads Calculator);</li> <li>• Building access is via driveway along Industrial Parkway</li> <li>• Vehicle types: see <b>Error! Reference source not found.</b></li> <li>• Emission factor: ARB EMFAC 2017; DPM (as PM<sub>10</sub> exhaust) emission factors at 25 mph for 2023 for the County; no credit for future emission factor reductions, see <b>Error! Reference source not found..</b></li> <li>• Travel to/from the driveway on Industrial Parkway, see Figure 3 for offsite vehicle travel route</li> <li>• Operations: 24/7</li> </ul>

**Receptors**

The SCAQMD defines a sensitive receptor any residence, including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes. A sensitive receptor includes long-term care hospitals, hospices, prisons, and dormitories, or similar live-in housing. For purposes of this HRA sensitive receptors were placed within the air dispersion model at the location of existing residences and locations along the offsite Project vehicle travel routes. In addition, a regular grid network of receptors was placed over the Project site to complete the receptor network. The nearest sensitive receptor was a residence located approximately 505 meters north of the project boundary, while the nearest worker receptor was located at the industrial building adjacent to the east boundary of the Project. **Error! Reference source not found.** shows the receptor locations included in the HRA.

**Figure 3: Locations of the Project Onsite and Offsite DPM Emission Sources**





Figure 4: Locations of Air Dispersion Model Receptors



## 2.3 Health Risk Estimation Methodology

### **Significance Thresholds**

#### Project-Level

The City of San Bernardino has not adopted a numerical significance threshold for cancer risk or non-cancer hazards. Therefore, the significance thresholds recommended by the SCAQMD were adopted for this assessment. The relevant significance thresholds are provided below:

- Cancer Risk: ten (10) persons per million population as the maximum acceptable incremental cancer risk due to exposure to toxic air contaminants (TAC)
- Non-cancer Hazard Index: 1.0

#### Cumulative

The SCAQMD has published a report on addressing cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (SCAQMD 2003)<sup>8</sup>. The SCAQMD considers projects that exceed the project-specific significance thresholds to be cumulatively considerable. Therefore, the project-specific (noted above) and cumulative significance thresholds are the same. As a result, projects that do not exceed the project-specific thresholds are not considered to be cumulatively significant.

### **Cancer Risk**

Cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer due to exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a probability since there is no level below which some level of impact may occur. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in a million implies a likelihood that up to ten people in a population of one million equally exposed people could contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk is an excess cancer risk in addition to any environmental cancer risk borne by a person not exposed to these air toxics.

The exposure dose is the amount of a chemical taken into the body at a given time. In particular, the exposure dose through inhalation ( $Dose_{air}$ ) is a function of the breathing rate, the exposure frequency, and the concentration of exposures. Breathing rates change over time for different age groups and are determined for specific age groups. The  $Dose_{air}$  is calculated for each of the following age groups: 3<sup>rd</sup> trimester to birth, 0 to 2, 2 to 16, and 16 to 30 years of age. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans<sup>9</sup>. The risks for each age group are summed together to provide

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<sup>8</sup> South Coast Air Quality Management District (SCAQMD) 2003. *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution*

<sup>9</sup> California Office of Environmental Health Hazards Assessment 2015. *Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. Page 8-6.

a total estimate of lifetime cancer risks for sensitive receptors. To estimate the cancer risk, the  $Dose_{air}$  is estimated by applying the following equation to the DPM concentration at each receptor as calculated by the air dispersion model:

$$Dose_{air} = C_{DPM} \times DBR_i \times A \times EF_i \quad (EQ-1)$$

Where:

$Dose_{air}$  = dose through inhalation (mg/kg/day)

$C_{DPM}$  = period average concentration of DPM as estimated by the air dispersion model ( $\mu\text{g}/\text{m}^3$ )

$DBR_i$  = daily breathing rate for each age group (liters/kg-day)—see **Error! Reference source not found.**

$A$  = Inhalation absorption factor (unitless = 1)

$EF$  = exposure frequency (days per year)

$i$  = number of age groups

The dose is multiplied by the cancer potency factor, the age sensitivity factors (ASF), the exposure duration (ED), and the fraction of time spent at home (FAH, for sensitive/residential receptors only) divided by averaging time (AT) to arrive at an estimate of cancer risk:

$$\text{Cancer Risk} = \sum_{i=1}^n Dose_{air,i} \times CPF \times ASF_i \times ED_i \times FAH_i / AT \quad (EQ-2)$$

Where:

Cancer Risk = Total individual excess inhalation cancer risk, defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is summed over all age groups; cancer risk is expressed in terms of risk per million exposed individuals.

$Dose_{air,i}$  = inhalation dose through inhalation (mg/kg-day)

$CPF$  = inhalation cancer potency factor ( $\text{mg}/\text{kg}\text{-day}$ )<sup>-1</sup>

$ASF_i$  = age sensitivity factors (see Table 8)

$ED_i$  = exposure duration (years)—see **Error! Reference source not found.**

$AT$  = averaging time of lifetime cancer risk (70 years)

$FAH_i$  = fraction of time spent at home—see **Error! Reference source not found.**

$n$  = number of age groups

For purposes of this HRA, the 30-year exposure duration for sensitive/residential receptors, consistent with the OEHHA/SCAQMD guidance, was assumed to span the time period of the third trimester birth in 2023 (the Project's opening year) to the year 2051. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Estimates of cancer risk were also provided for informational purposes for a child exposure (3<sup>rd</sup> trimester pre-birth to 9-years), adult exposures (30-years), and a full lifetime exposure (3<sup>rd</sup> trimester pre-birth to 70 years)

Table 8 provides the values for the various cancer risk parameters shown in Equation 1 and Equation 2 for the receptor types examined in this assessment. For DPM, the value of the CPF is 1.1 milligrams per kilogram per day.

**Table 8. DPM Diesel Truck Emission Factors**

Age Group	Exposure Frequency, EF		Exposure Duration, ED (Years)	Age Sensitivity Factors (ASF)	Time at Home Factor (TAH)	Daily Breathing Rate <sup>a</sup> (DBR) (l/kg-day)
	Hours/Day	Days/Year				
<b>Sensitive/Residential Receptor – Pre-birth to Adult (30-years duration)</b>						
3 <sup>rd</sup> Trimester to Birth	24	350	0.25	10	0.85	361
0 to 2 years	24	350	2	10	0.85	1,090
2 to 16 years	24	350	14	3	0.72	745
16 to 30 years	24	350	14	1	0.73	335
<b>Sensitive Receptor/Residential Child (9-years duration)</b>						
3 <sup>rd</sup> Trimester to Birth	24	350	0.25	10	0.85	361
0 to 2 years	24	350	2	10	0.85	1,090
2 to 9 years	24	350	9	3	0.72	861
<b>Sensitive Receptor/Residential Receptor – Adult (30-years duration)</b>						
17 years and older	24	350	30	1	0.73	335
<b>Sensitive Receptor/Residential Receptor – Pre-birth to Adult (70-years duration)</b>						
3 <sup>rd</sup> Trimester to Birth	24	350	0.25	10	0.85	361
0 to 2 years	24	350	2	10	0.85	1,090
2 to 16	24	350	14	3	0.72	745
16 to 70 years	24	350	54	1	0.73	290
<b>Worker Receptor (25-years duration)</b>						
17 years and older	8	250	25	1	1	230

<sup>a</sup>Daily breathing rates are representative of the 95<sup>th</sup> percentile for sensitive/residential receptors  
(L/kg-day) = liters per kilogram body weight per day

Source: SCAQMD Rule 1401

### **Chronic Non-cancer Hazard**

TACs can also cause chronic (long-term) effects on non-cancer illnesses such as reproductive effects, birth defects, or adverse environmental effects. Non-cancer health risks are conveyed in terms of the hazard index (HI). A ratio of the predicted concentration of the facility's reported TAC emissions to a concentration is considered acceptable to public health professionals. A significant risk is defined as an HI of 1 or greater. A HI of less than 1 indicates that no significant health risks are expected from the facility's TAC emissions. The following equation gives the relationship for the non-cancer hazards for TACs.

$$HI = C_{ann}/REL \quad (EQ-3)$$

Where:

HI = Hazard Index: an expression of the potential for chronic non-cancer health risks  
 $C_{ann}$  = Annual average TAC concentration ( $\mu\text{g}/\text{m}^3$ )  
 REL = Reference Exposure Level: the DPM concentration at which no adverse health effects are anticipated

As predicted by the air dispersion model, annual concentrations of DPM are used to estimate chronic non-cancer hazards. The OEHHA has defined a REL for DPM of 5 µg/m<sup>3</sup>.

## 2.4 Results of the Health Risk Assessment

### **Project-Level Risk Results**

**Error! Reference source not found.** presents a summary of the cancer risks and chronic non-cancer hazards resulting from the Project's operational DPM emissions along with the SCAQMD health risk significance thresholds. As noted from **Error! Reference source not found.**, the estimated maximum cancer risk is 0.1 in one million for sensitive/residential receptors, less than the 10 in one million significance threshold. In addition, the estimated non-cancer hazard index is less than the significance threshold as well. Therefore, the operation of the Project would not result in a significant health impact.



**Table 9. Summary of Proposed Project Health Risk Assessment**

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	0.1	10	No
Maximum Impacted Sensitive Receptor – Child	0.06	10	No
Maximum Impacted Sensitive Receptor – Adult	0.02	10	No
Maximum Impacted Sensitive Receptor – 70 Years	0.12	10	No
Maximum Impacted Worker Receptor	0.34	10	No
Receptor	Chronic Non-Cancer Hazard Index		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	<0.001	1.0	No
Maximum Impacted Sensitive Receptor – Child	<0.001	1.0	No
Maximum Impacted Sensitive Receptor – Adult	<0.001	1.0	No
Maximum Impacted Sensitive Receptor – 70 Years	<0.001	1.0	No
Maximum Impacted Worker Receptor	0.001	1.0	No

### **Cumulative Impact Results**

The SCAQMD conducted an analysis of the cumulative effects of TACs within the South Coast Air Basin as part of its *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V)*, the draft version of this MATES study series<sup>10</sup>). The MATES studies express cumulative TAC impacts in terms of potential increased cancer risks. The MATES-V Study estimates of the cumulative TAC-source cancer risk for the localized area encompassing the Project site ranges from 300 to 400 in one million. DPM-source cancer risks are reflected in the area's ambient cumulative cancer risk along with all other TAC-source risks and accounts for the predominance (68%) of the total risk shown in MATES-V for the Project site area. The cancer risk upper limit of 400 in a million was assumed to comprise the impact from existing TAC emission sources in the region without the impacts

<sup>10</sup> SCAQMD 2021. *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V)*. Website: <http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>



from the Project. Because the existing cancer risk levels already exceed the 10 in one million cumulative significance threshold, a cumulatively significant impact already exists at the Project site.

The TAC emission inventory used in the MATES-V study to estimate health impacts was representative of emissions for the year 2018. In addition to the MATES-V cumulative TAC-source cancer risk noted above, other new or proposed potential TAC-generating projects (related projects) in the Project area not included in the MATES V study could contribute to cumulative TAC impacts. The SCAQMD has applied a 1,000-foot distance from a proposed project to identify other development projects that could contribute to cumulative impacts with the proposed project<sup>11</sup>. The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources, showing that emissions diminish substantially between 500 and 1,000 feet from emission sources. The search radius for this Project was extended to 0.25 miles (1,320 feet) to identify potential cumulative sources.

Within a region of approximately 0.25 miles, four potential projects could add to the overall TAC emission burden within the region<sup>12</sup>. These projects are:

- The Travel Center
- Kendall Drive Trailer Storage Project

Appropriate information is not readily available to perform a health risk assessment for these planned and foreseeable projects. However, the impacts from these related projects would add to the risks quantified in the MATES-V study that already exceed the 10 in one million cancer risk significance threshold.

Project-level TACs would incrementally increase the background cancer risk by a maximum of 0.1 incidents per million population at the maximum-impacted sensitive receptor. The maximum cancer risk is less than the 10 in one million project-level and cumulative significance thresholds. Therefore, the Project's health risk impacts are neither individually significant nor cumulatively considerable.

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<sup>11</sup> SCAQMD 2019. CEQA Comment Letter, Mitigated Negative Declaration (MND) for the Proposed Alder II Warehouse Project. Website: <http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2019/january/SBC181221-08.pdf?sfvrsn=8>

<sup>12</sup> EPDS 2021. 5770 Industrial Parkway Traffic Impact Study. Exhibit B. Cumulative Map

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*APPENDIX A – ESTIMATION OF PROJECT OPERATIONAL DPM EMISSIONS*

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**5770 Industrial Project  
Emission Assumptions**

**2023  
DPM Emissions**

**1) Vehicle Emissions**

- (a) Truck and Auto Traffic      EMFAC2017
- (b) Location                      San Bernardino County (SC)
- (c) Truck Mix  
Project Trip Generation Memo  
EMFAC2017 to derive the % of diesel truck vehicles
- (d) Vehicle Travel Speed  
Onsite Travel                      5 mph  
Offsite Travel                      25 mph
- (e) Truck Idle time:              15 minutes (truck idling)  
for LHDT, MHDT, and HHDT diesel trucks)
- (f) Emission factors for              DPM emissions
- (g) Emissions calculated for      2023

**2) Refrigerated Land Uses**

- Percentage of Buildings used for Refrigeration (applies to DSL HDT)
- Building 1                              0%
- TRU Onsite Operating Time              0 hours

**3) Traffic Allocation**

- 1) Onsite travel emissions generated from vehicles traveling to building loading docks
  - 2) Onsite idling emissions generated only for heavy duty diesel trucks
  - 3) Offsite travel trips allocated in accordance with the Traffic Impact Memorandum
  - 4) Trip Allocation
- |            | <b>Building Size</b> | <b>Allocation</b> |
|------------|----------------------|-------------------|
| Building 1 | 52,160               | 100%              |

**4) Emission Source Configuration**

- 1) Onsite and Offsite Vehicle travel represented by a line source
- 2) Onsite idling represented as a line source
- 3) 50% of the trucks access the west loading area and 50% access the east loading area

**5) Vehicle Trip Lengths**

**Onsite Travel Links**

	<b>Travel Distance (m)</b>	<b>Trip Distance (mi)</b>	<b>% Traffic</b>	<b>Travel Type</b>
Onsite 1: Enter and Exit On Industrial Highway Driveway	663	0.412	100%	One Way

**Offsite Travel Links**

	<b>Travel Distance (m)</b>	<b>Travel Distance (mi)</b>	<b>Travel Type</b>	<b>% of Truck Travel</b>
Offsite1: I215 NB Offramp > Palm Ave> Industrial Parkway>Project Driveway	1001	0.622	One-Way	60%
Offsite2: Project Driveway > Industrial Parkway> Palm Drive>I215 NB Onramp	939	0.583	One Way	35%
Offsite 3: Projct Driveway >Industrial Parkway >Kendall Dr	1658	1.030	Roundtrip	5%
Offsite 4: Project Driveway>Palm Ave>I215 SB Onramp	1009	0.627	One Way	60%
Offsite5: I215SB Offramp>Palm Ave>Industrial Parkway>Project Driveway	1019	0.633	One Way	35%

**6) Other Input Parameters**

Facility Operations for Warehouses (hr/day):	24
Annual Operations (days/year)	365

**Building Size**

Building	Total (sq-ft)
Truck Terminal	52,160

**Trip Generation**

Trip Generation Rate 4.96 trips/TSF as per Traffic Trip Generation Memorandum

Building	trips/day (Non-PCE)
Truck Terminal	259

Vehicle Fleet Distribution	% Trips
Truck Terminal	100%

**Vehicle Fleet Mix from Trip Generation Memo**

	Vehicle Distribution	Daily Trips
LDA (Passenger Vehicles)	46.00%	119
LHDT (2 axle truck)	6.10%	16
MHDT(3 axle truck)	13.90%	36
HHDT (4+ axle truck)	34.00%	88
	100.0%	259

**Passenger Vehicle Fleet Mix**

	EMFAC2017 Fleet Mix	% Total	Daily Trips
LDA	55.42%	61.1%	73
LDT1	5.24%	5.8%	7
LDT2	16.70%	18.4%	22
MDV	13.28%	14.6%	17
Total	90.63%	100.0%	119

**Light Heavy Duty Fleet Mix**

	EMFAC2017 Fleet Mix	% Total	Daily Trips	% Diesel	Number of Daily Diesel Trips	Number of Daily Diesel Trucks
LHDT1	2.38%	78.7%	12	51.51%	6	3
LHDT2	0.65%	21.3%	3	73.67%	2	1
Total	3.03%	100.0%	16	<b>Total</b>	9	4

CalEEMod Assumption: Passenger Vehicles + Local Trucks: LDA+LDT+MDT+LHDT w/CalEEMod default trip distances						
Fleet Mix	Total Trips	%Total	Daily Trip Rate (Trips/TSF)			
LDA	73	54.0%				
LDT1	7	5.1%				
LDT2	22	16.3%				
MDV	17	12.9%				
LHDT1	12	9.2%				
LHDT2	3	2.5%				
<b>Total</b>	<b>135</b>	<b>100.0%</b>	<b>2.58</b>			
CalEEMod Assumption: Haul Trucks: MHDT +HHDT w/ trip distance of 40 miles						
Fleet Mix	Total Trips	%Total	Daily Trip Rate (Trips/TSF)	% Diesel	Number of Daily Diesel Trips	Number of Daily Diesel Trucks
MHDT	36	29.0%		93.20%	34	17
HHDT	88	71.0%		99.98%	88	44
<b>Total</b>	<b>124</b>	<b>100.0%</b>	<b>2.38</b>	<b>Total</b>	121	61
Composite Fleet Mix	Number of Daily Trips	% Total				
LDA	73	28.1%				
LDT1	7	2.7%				
LDT2	22	8.5%				
MDV	17	6.7%				
LHDT1	12	4.8%				
LHDT2	3	1.3%				
MHDT	36	13.9%				
HHDT	88	34.0%	140	69.852672		
	259	100.0%				

# 5770 Industrial Project

Pollutant: DPM

Year: 2023

## Emission Summary

<b>Onsite Emissions</b>		<b>Emissions (g/sec)</b>	<b>Emissions (lbs/day)</b>
ONSITE1	Building 1	4.95E-06	9.42E-04
	Total	4.95E-06	9.42E-04

<b>Idling Emissions</b>		<b>Emissions (g/sec)</b>	<b>Emissions (lbs/day)</b>
Idle 1	Building 1	6.85E-06	1.30E-03
Idle 2	Building 1	6.85E-06	1.30E-03
	Total	1.37E-05	2.61E-03

<b>Offsite Emissions</b>		<b>Emissions (g/sec)</b>	<b>Emissions (lb/day)</b>
	Offsite 1	2.03E-06	3.87E-04
	Offsite 2	1.11E-06	2.12E-04
	Offsite 3	2.80E-07	5.34E-05
	Offsite 4	2.05E-06	3.90E-04
	Offsite 5	1.21E-06	2.30E-04
	Total	6.68E-06	1.27E-03

<b>Total Emissions</b>		<b>Emissions (g/sec)</b>	<b>Emissions (lb/day)</b>
	<b>Total</b>	<b>2.53E-05</b>	<b>4.82E-03</b>

**5770 Industrial Project** **2023**  
**Onsite Truck Delivery Idling Operational Emissions**  
**DPM Emissions**

**Truck Onsite Idling Operations**

**Assumption: 50% of the trucks access the west loading area and 50% access the east loading area**

		Average Daily Truck Deliveries					Idle Time per Truck (hour/day)	HHDTruck Emissions (g/day)	MHDTTruck Emissions (g/day)	LHDTruck1 Emissions (g/day)	LHDTruck2 Emissions (g/day)	Total Truck (g/day)	TRU OP Time (hours/day/TRU)	Total TRU Emissions (g/day)	Total Emissions (g/day)	Emissions Average (lb/day)	Emissions Average (g/sec)
AERMOD ID	User/ Location	HHDTruck Trucks	MHDTTruck Trucks	LHDTruck1 Trucks	LHDTruck2 Trucks	TRU Number											
<b>Truck Idling Sources</b>																	
Idle 1	Idling Sources - West Side	22	8	2	1	0	0.250	7.92E-02	7.32E-02	3.15E-01	1.24E-01	5.92E-01	0.000	0.00E+00	5.92E-01	1.30E-03	6.85E-06
Idle 2	Idling Sources - East Side	22	8	2	1	0	0.250	7.92E-02	7.32E-02	3.15E-01	1.24E-01	5.92E-01	0.000	0.00E+00	5.92E-01	1.30E-03	6.85E-06
	Totals	44	17	3	1	0		1.58E-01	1.46E-01	6.30E-01	2.48E-01	1.18E+00	0.00E+00	0.00E+00	1.18E+00	2.61E-03	1.37E-05

Daily Operation = 24 per day  
 Operation Days = 365 days/year

**Diesel Diesel Truck Emission Factors<sup>b</sup>**

LHDTruck1 Truck Idle Emissions (g/hr) = 0.789 g/hr  
 LHDTruck2 Truck Idle Emissions (g/hr) = 0.800 g/hr  
 MHDT Truck Idle Emissions (g/hr) = 0.035 g/hr  
 HHD Truck Idle Emissions (g/hr) = 0.014 g/hr

Truck idle time (min) = 15 min

Notes:  
 Idling emission factor derived from CARB EMFAC2017 model as the fleet average for San Bernardino County in 2023

Daily Truck idle emissions = Idle EF (g/hr) \* idle time (min)/60 / daily hours (hr)/3600 \* No. trucks

Daily TRU emissions = TRU Emission Rate (g/hr) \* TRU run time (min)/60 / Daily Hours (hr) \* No. TRUs

5770 Industrial Project  
 Emissions from Onsite Truck Travel  
 DPM Emissions

Year: 2023

Onsite Truck Operations

													DSL Daily		DSL Daily	DSL Daily	DSL
		Trip Length	Operations	HHDT	MHDT	LHDT1	LHDT2	TRU	HHDT	MHDT	LHDT1	LHDT2	Total	DSL Daily	Total	Total	Total
AERMOD ID	On-Site Truck Delivery Emissions	(mi)	Trucks	Trucks	Trucks	Truck	Number	(g/day)	(g/day)	(g/day)	(g/day)	(g/day)	Trucks	TRU	Truck	Truck	Truck
													(g/day)	(g/day)	(g/day)	(lb/day)	(g/sec)
ONSITE1	Onsite 1: Enter and Exit On Industrial Highway Driveway	0.412	24	44	17	3	1	0	2.70E-01	4.05E-02	8.57E-02	3.14E-02	4.28E-01	0.00E+00	4.28E-01	9.42E-04	4.95E-06

Operation Days = 365  
 Delivery Truck Hours (hrs/day) = 24  
 Delivery Truck Speed (mph) = 5

**Diesel DPM Truck Emission Factors (EMFAC2017)**

2-Axle (LHDT1) = 0.065  
 2-axle (LHDT2) = 0.061  
 3-Axle MHDT (g/mi) = 0.006  
 4-Axle HHD (g/mi) = 0.015

Truck emissions for trucks based on EMFAC 2017 for truck speed of 5 mph San Bernardino County (SC) 2023  
 Daily Truck Emissions = Emission Factor (g/mi) \* (Truck/day) \* (miles/Truck)

Notes:  
 Emission factor derived from CARB EMFAC2017 model as the fleet average for San Bernardino County (SC) 2023

5770 Industrial Project  
Emissions from Offsite Vehicle Travel

Truck Operations

Off-Site Truck Delivery Emissions -

Year: 2023

Trip lengths for all routes except OFFSITE3 are one-way distances; OFFSITE3 is the roundtrip distance

Use of number of trucks rather than number of truck trips. This was done because with the exception of OFFSITE 3, all truck routes are one-way.  
Trucks = trips/2

AERMOD ID	Trip Description	Trip Length	Operations	Number of HHDT (trucks/day)	Number of MHDT (trucks/day)	Number of LHDT1 (trucks/day)	Number of LHDT2 (trucks/day)	Number of TRU Trips (number)	Total Number of DSL Trucks (trucks/day)	HHDT Emissions (grams/day)	MHDT Emissions (grams/day)	LHDT1 Emissions (grams/day)	LHDT2 Emissions (grams/day)	Truck Emissions (g/day)	Total Emissions		
		(mi)													(hr)	(grams/day)	(grams/day)
OFFSITE1	Offsite1: I215 NB Offramp > Palm Ave> Industrial Parkway>Project Driveway	0.612	24	26	10	2	1	0	39	1.17E-01	1.87E-02	2.87E-02	1.12E-02	1.76E-01	0.00E+00	3.87E-04	2.03E-06
OFFSITE2	Offsite2: Project Driveway > Industrial Parkway> Palm Drive>I215 NB Onramp	0.583	24	15	6	1	0	0	23	6.40E-02	1.02E-02	1.57E-02	6.13E-03	9.61E-02	0.00E+00	2.12E-04	1.11E-06
OFFSITE3	Offsite 3: Project Driveway >Industrial Parkway >Kendall Dr	1.030	24	2	1	0	0	0	3	1.61E-02	2.58E-03	3.96E-03	1.55E-03	2.42E-02	0.00E+00	5.34E-05	2.80E-07
OFFSITE4	Offsite 4: Project Driveway>Palm Ave>I215 SB Onramp	0.627	24	26	10	2	1	0	39	1.18E-01	1.89E-02	2.89E-02	1.13E-02	1.77E-01	0.00E+00	3.90E-04	2.05E-06
OFFSITE5	Offsite5: I215SB Offramp>Palm Ave>Industrial Parkway>Project Driveway	0.633	24	15	6	1	0	0	23	6.95E-02	1.11E-02	1.70E-02	6.65E-03	1.04E-01	0.00E+00	2.30E-04	1.21E-06

Operation Days = 365  
 Delivery Truck Hours (hrs/day) = 24  
 Delivery Truck Speed (mph) = 25  
**Diesel Truck Emission Factors (EMFAC2017)**  
 2-axle LHDT1 (g/mi) = 0.024  
 2-axle LHDT2 (g/mi) = 0.024  
 3-Axle MHDT (g/mi) = 0.003  
 4-Axle HHD (g/mi) = 0.007

Daily Truck Emissions = Emission Factor (g/mi) \* (Truck trips/day) \* (miles/Truck Trip)

Daily TRU Emissions = Emission Rate (g/hr) \* (TRU Trips/day / Speed (m/hr)) \* (miles/TRU Trip)

Truck emissions for trucks based on EMFAC 2017 for truck speed of 25 mph and

San Bernardino County (SC) 2023



5770 Industrial Project  
Emissions from Offsite Vehicle Travel

Year: 2023

Truck Operations

Off-Site Truck Delivery Emissions -

AERMOD ID	Trip Description	Trip	Number of		Number of		Number of TRU Trips (number)	Total Number of DSL Trucks (trucks/day)	HHDT Emissions (grams/day)	MHDT Emissions (grams/day)	LHDT1 Emissions (grams/day)	LHDT2 Emissions (grams/day)	Truck Emissions (g/day)	Total Emissions			
		Length (mi)	Operations (hr)	HHDT (trucks/day)	MHDT (trucks/day)	LHDT1 (trucks/day)								LHDT2 (trucks/day)	TRU Total (grams/day)	Daily Total (lbs/day)	Hourly Ave (grams/sec)
OFFSITE1	Offsite1: I215 NB Offramp > Palm Ave> Industrial Parkway>Project Driveway	0.622	24	26	10	2	1	0	39	1.17E-01	1.87E-02	2.87E-02	1.12E-02	1.76E-01	0.00E+00	3.87E-04	2.03E-06
OFFSITE2	Offsite2: Project Driveway > Industrial Parkway> Palm Drive>I215 NB Onramp	0.583	24	15	6	1	0	0	23	6.40E-02	1.02E-02	1.57E-02	6.13E-03	9.61E-02	0.00E+00	2.12E-04	1.11E-06
OFFSITE3	Offsite 3: Projet Driveway >Industrial Parkway >Kendall Dr	1.030	24	2	1	0	0	0	3	1.61E-02	2.58E-03	3.96E-03	1.55E-03	2.42E-02	0.00E+00	5.34E-05	2.80E-07
OFFSITE4	Offsite 4: Project Driveway>Palm Ave>I215 SB Onramp	0.627	24	26	10	2	1	0	39	1.18E-01	1.89E-02	2.89E-02	1.13E-02	1.77E-01	0.00E+00	3.90E-04	2.05E-06
OFFSITE5	Offsite5: I215SB Offramp>Palm Ave>Industrial Parkway>Project Driveway	0.633	24	15	6	1	0	0	23	6.95E-02	1.11E-02	1.70E-02	6.65E-03	1.04E-01	0.00E+00	2.30E-04	1.21E-06

Operation Days =

365

Daily Truck Emissions = Emission Factor (g/mi) \* (Truck trips/day) \* (miles/Truck Trip)

Delivery Truck Hours (hrs/day) =

24

Delivery Truck Speed (mph) =

25

Daily TRU Emissions = Emission Rate (g/hr) \* (TRU Trips/day / Speed (m/hr)) \* (miles/TRU Trip)

Diesel Truck Emission Factors (EMFAC2017)

2-axle LHDT1 (g/mi)=

0.024

2-axle LHDT2 (g/mi) =

0.024

3-Axle MHDT (g/mi) =

0.003

4-Axle HHD (g/mi) =

0.007

Truck emissions for trucks based on EMFAC 2017 for truck speed of 25 mph and

San Bernardino County (SC)

2023

Source: EMFAC2017 (v1.0.3) Emissions Inventory  
 Region Type: Sub-Area  
 Region: San Bernardino (SC)  
 Calendar Year: 2023  
 Season: Annual

Vehicle Classification: EMFAC2007 Categories  
 Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	VMT	DSL-VMT	GAS-VMT	%DSL-VMT Total	% Total		
San Bernardino (SC)	2023	LDA	Aggregate	Aggregate	Diesel	212163.8	LDA	239612.1	23700815	0.010009	23940427.5	55.4%
San Bernardino (SC)	2023	LDT1	Aggregate	Aggregate	Diesel	528.3856	LDT1	601.668	2261930	0.000266	2262531.38	5.2%
San Bernardino (SC)	2023	LDT2	Aggregate	Aggregate	Diesel	45232.39	LDT2	48028.56	7165411	0.006658	7213439.65	16.7%
San Bernardino (SC)	2023	LHDT1	Aggregate	Aggregate	Diesel	429401.7	LHDT1	530194.9	499086.1	0.515112	1029280.98	2.4%
San Bernardino (SC)	2023	LHDT2	Aggregate	Aggregate	Diesel	162996	LHDT2	205588.3	73474.64	0.736709	279062.947	0.6%
San Bernardino (SC)	2023	MDV	Aggregate	Aggregate	Diesel	122781.7	MDV	137165.9	5597390	0.023919	5734555.81	13.3%
San Bernardino (SC)	2023	T6-MHDT	Aggregate	Aggregate	Diesel	995079.3	T6-MHDT	740259.9	54049.91	0.931954	794309.786	1.8%
San Bernardino (SC)	2023	T7-HHDT	Aggregate	Aggregate	Diesel	1827709	T7-HHDT	1943054	469.2901	0.999759	1943523.14	4.5%
San Bernardino (SC)	2023	LDA	Aggregate	Aggregate	Gasoline	23316767						
San Bernardino (SC)	2023	LDT1	Aggregate	Aggregate	Gasoline	2056805	Total	3844505	39352626	43197131	43197131.2	
San Bernardino (SC)	2023	LDT2	Aggregate	Aggregate	Gasoline	6579913						
San Bernardino (SC)	2023	LHDT1	Aggregate	Aggregate	Gasoline	474687.5		VMT-DSL	VMT-GAS	VMT-Total	% Total	
San Bernardino (SC)	2023	LHDT2	Aggregate	Aggregate	Gasoline	82907.2	LHDT1	530194.9	499086.1	1029281	78.7%	
San Bernardino (SC)	2023	MDV	Aggregate	Aggregate	Gasoline	5090755	LHDT2	205588.3	73474.64	279062.9	21.3%	
San Bernardino (SC)	2023	T6-MHDT	Aggregate	Aggregate	Gasoline	79321.31		735783.2	572560.7	1308344		
San Bernardino (SC)	2023	T7-HHDT	Aggregate	Aggregate	Gasoline	502.1025						

Source: EMFAC2017 (v1.0.3) Emission Rates  
 Region Type: Sub-Area  
 Region: San Bernardino (SC)  
 Calendar Year: 2023  
 Season: Annual

Vehicle Classification: EMFAC2007 Categories  
 Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	VMT	NOx_RUNE	PM2.5_RUI	PM10_RUI	CO2_RUNE	CH4_RUNE	N2O_RUNEX	ROG_RUNE	TOG_RUNE	CO_RUNEX	SOx_RUNEX
San Bernardino (SC)	2023	LHDT1	Aggregate	5	Diesel	158.6578	1.714489	0.062248	0.065062	1202.872	0.035152	0.18907478	0.756811	0.861579	3.112055	0.011371
San Bernardino (SC)	2023	LHDT2	Aggregate	5	Diesel	60.22469	1.498478	0.058766	0.061424	1269.413	0.034961	0.19953411	0.752679	0.856875	3.14613	0.012001
San Bernardino (SC)	2023	T6-MHDT	Aggregate	5	Diesel	448.8425	6.478593	0.005613	0.005867	2326.634	0.002631	0.36571441	0.056637	0.064477	0.773283	0.021981
San Bernardino (SC)	2023	T7-HHDT	Aggregate	5	Diesel	9217.789	15.89424	0.014275	0.01492	3993.578	0.005824	0.62773489	0.125388	0.142745	2.076407	0.037729
San Bernardino (SC)	2023	LHDT1	Aggregate	25	Diesel	22219.57	1.77856	0.022982	0.024021	499.2305	0.005509	0.07847209	0.118614	0.135035	0.545116	0.00472
San Bernardino (SC)	2023	LHDT2	Aggregate	25	Diesel	8434.298	1.470052	0.023151	0.024198	570.8184	0.005015	0.08972471	0.107977	0.122925	0.495981	0.005396
San Bernardino (SC)	2023	T6-MHDT	Aggregate	25	Diesel	52049.26	2.172763	0.002864	0.002993	1129.19	0.00048	0.17749295	0.010329	0.011759	0.133086	0.010668
San Bernardino (SC)	2023	T7-HHDT	Aggregate	25	Diesel	81512.2	4.617438	0.006821	0.00713	1682.636	0.001139	0.26448694	0.024521	0.027915	0.3583	0.015897

Idling Emission Factors

2023 Annual	San Bernar	HHDT	IDLEX	PM10	0.014413	grams/vehicle-idle-hour
2023 Annual	San Bernar	LHDT1	IDLEX	PM10	0.788606	grams/vehicle-idle-hour
2023 Annual	San Bernar	LHDT2	IDLEX	PM10	0.800321	grams/vehicle-idle-hour
2023 Annual	San Bernar	MHDT	IDLEX	PM10	0.03496	grams/vehicle-idle-hour

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*APPENDIX B – ESTIMATION OF CANCER RISK*

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# 5770 Industrial Parkway Industrial Project

## Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Residential	30-year Exposure								Total Cancer risk
Annual DPM Concentration at Max Impacted Sensitive Receptor			0.00015 ug/m3							0.10
Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2022	0.00015	1.1	361	0.25	350	25550	0.85	10	0.00
1	2022	0.00015	1.1	1090	1	350	25550	0.85	10	0.02
2	2023	0.00015	1.1	1090	1	350	25550	0.85	10	0.02
3	2024	0.00015	1.1	745	1	350	25550	0.72	3	0.00
4	2025	0.00015	1.1	745	1	350	25550	0.72	3	0.00
5	2026	0.00015	1.1	745	1	350	25550	0.72	3	0.00
6	2027	0.00015	1.1	745	1	350	25550	0.72	3	0.00
7	2028	0.00015	1.1	745	1	350	25550	0.72	3	0.00
8	2029	0.00015	1.1	745	1	350	25550	0.72	3	0.00
9	2030	0.00015	1.1	745	1	350	25550	0.72	3	0.00
10	2031	0.00015	1.1	745	1	350	25550	0.72	3	0.00
11	2032	0.00015	1.1	745	1	350	25550	0.72	3	0.00
12	2033	0.00015	1.1	745	1	350	25550	0.72	3	0.00
13	2034	0.00015	1.1	745	1	350	25550	0.72	3	0.00
14	2035	0.00015	1.1	745	1	350	25550	0.72	3	0.00
15	2036	0.00015	1.1	745	1	350	25550	0.72	3	0.00
16	2037	0.00015	1.1	745	1	350	25550	0.72	3	0.00
17	2038	0.00015	1.1	335	1	350	25550	0.73	1	0.00
18	2039	0.00015	1.1	335	1	350	25550	0.73	1	0.00
19	2040	0.00015	1.1	335	1	350	25550	0.73	1	0.00
20	2041	0.00015	1.1	335	1	350	25550	0.73	1	0.00
21	2042	0.00015	1.1	335	1	350	25550	0.73	1	0.00
22	2043	0.00015	1.1	335	1	350	25550	0.73	1	0.00
23	2044	0.00015	1.1	335	1	350	25550	0.73	1	0.00
24	2045	0.00015	1.1	335	1	350	25550	0.73	1	0.00
25	2046	0.00015	1.1	335	1	350	25550	0.73	1	0.00
26	2047	0.00015	1.1	335	1	350	25550	0.73	1	0.00
27	2048	0.00015	1.1	335	1	350	25550	0.73	1	0.00
28	2049	0.00015	1.1	335	1	350	25550	0.73	1	0.00
29	2050	0.00015	1.1	335	1	350	25550	0.73	1	0.00
30	2051	0.00015	1.1	335	1	350	25550	0.73	1	0.00

## 5770 Industrial Parkway Industrial Project

### Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance		Residential	Child (9 years)								Total Cancer risk
Annual DPM Concentration at Max Impacted Sensitive Receptor				0.00015 ug/m3							0.06
Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)	
2	2022	0.00015	1.1	745	1	350	25550	0.85	3	0.00	
3	2023	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
4	2024	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
5	2025	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
6	2026	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
7	2027	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
8	2028	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
9	2029	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
10	2030	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
11	2031	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
12	2032	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
13	2033	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
14	2034	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
15	2035	0.00015	1.1	745	1	350	25550	0.72	3	0.00	
16	2036	0.00015	1.1	745	1	350	25550	0.72	3	0.00	

# 5770 Industrial Parkway Industrial Project

## Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Residential	30-year Exposure	Adult								Total Cancer risk
Annual DPM Concentration at Max Impacted Sensitive Receptor			0.00015 ug/m3								0.02
Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)	
1	2022	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
2	2023	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
3	2024	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
4	2025	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
5	2026	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
6	2027	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
7	2028	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
8	2029	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
9	2030	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
10	2031	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
11	2032	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
12	2033	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
13	2034	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
14	2035	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
15	2036	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
16	2037	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
17	2038	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
18	2039	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
19	2040	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
20	2041	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
21	2042	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
22	2043	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
23	2044	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
24	2045	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
25	2046	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
26	2047	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
27	2048	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
28	2049	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
29	2050	0.00015	1.1	335	1	350	25550	0.73	1	0.00	
30	2051	0.00015	1.1	335	1	350	25550	0.73	1	0.00	

**5770 Industrial Parkway Industrial Project**

**Cancer Risk Calculation - Location of Max Risk**

SCAQMD Guidance Residential 70-year Exposure Total Cancer risk 0.12

Annual DPM Concentration at Max Impacted Sensitive Receptor 0.00015 ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2022	0.00015	1.1	361	0.25	350	25550	0.85	10	0.00
1	2022	0.00015	1.1	1090	1	350	25550	0.85	10	0.02
2	2023	0.00015	1.1	1090	1	350	25550	0.85	10	0.02
3	2024	0.00015	1.1	745	1	350	25550	0.72	3	0.00
4	2025	0.00015	1.1	745	1	350	25550	0.72	3	0.00
5	2026	0.00015	1.1	745	1	350	25550	0.72	3	0.00
6	2027	0.00015	1.1	745	1	350	25550	0.72	3	0.00
7	2028	0.00015	1.1	745	1	350	25550	0.72	3	0.00
8	2029	0.00015	1.1	745	1	350	25550	0.72	3	0.00
9	2030	0.00015	1.1	745	1	350	25550	0.72	3	0.00
10	2031	0.00015	1.1	745	1	350	25550	0.72	3	0.00
11	2032	0.00015	1.1	745	1	350	25550	0.72	3	0.00
12	2033	0.00015	1.1	745	1	350	25550	0.72	3	0.00
13	2034	0.00015	1.1	745	1	350	25550	0.72	3	0.00
14	2035	0.00015	1.1	745	1	350	25550	0.72	3	0.00
15	2036	0.00015	1.1	745	1	350	25550	0.72	3	0.00
16	2037	0.00015	1.1	745	1	350	25550	0.72	3	0.00
17	2038	0.00015	1.1	290	1	350	25550	0.73	1	0.00
18	2039	0.00015	1.1	290	1	350	25550	0.73	1	0.00
19	2040	0.00015	1.1	290	1	350	25550	0.73	1	0.00
20	2041	0.00015	1.1	290	1	350	25550	0.73	1	0.00
21	2042	0.00015	1.1	290	1	350	25550	0.73	1	0.00
22	2043	0.00015	1.1	290	1	350	25550	0.73	1	0.00
23	2044	0.00015	1.1	290	1	350	25550	0.73	1	0.00
24	2045	0.00015	1.1	290	1	350	25550	0.73	1	0.00
25	2046	0.00015	1.1	290	1	350	25550	0.73	1	0.00
26	2047	0.00015	1.1	290	1	350	25550	0.73	1	0.00
27	2048	0.00015	1.1	290	1	350	25550	0.73	1	0.00
28	2049	0.00015	1.1	290	1	350	25550	0.73	1	0.00
29	2050	0.00015	1.1	290	1	350	25550	0.73	1	0.00
30	2051	0.00015	1.1	290	1	350	25550	0.73	1	0.00
31	2052	0.00015	1.1	290	1	350	25550	0.73	1	0.00
32	2053	0.00015	1.1	290	1	350	25550	0.73	1	0.00
33	2054	0.00015	1.1	290	1	350	25550	0.73	1	0.00
34	2055	0.00015	1.1	290	1	350	25550	0.73	1	0.00
35	2056	0.00015	1.1	290	1	350	25550	0.73	1	0.00
36	2057	0.00015	1.1	290	1	350	25550	0.73	1	0.00
37	2058	0.00015	1.1	290	1	350	25550	0.73	1	0.00
38	2059	0.00015	1.1	290	1	350	25550	0.73	1	0.00
39	2060	0.00015	1.1	290	1	350	25550	0.73	1	0.00
40	2061	0.00015	1.1	290	1	350	25550	0.73	1	0.00
41	2062	0.00015	1.1	290	1	350	25550	0.73	1	0.00
42	2063	0.00015	1.1	290	1	350	25550	0.73	1	0.00
43	2064	0.00015	1.1	290	1	350	25550	0.73	1	0.00
44	2065	0.00015	1.1	290	1	350	25550	0.73	1	0.00
45	2066	0.00015	1.1	290	1	350	25550	0.73	1	0.00
46	2067	0.00015	1.1	290	1	350	25550	0.73	1	0.00
47	2068	0.00015	1.1	290	1	350	25550	0.73	1	0.00
48	2069	0.00015	1.1	290	1	350	25550	0.73	1	0.00
49	2070	0.00015	1.1	290	1	350	25550	0.73	1	0.00
50	2071	0.00015	1.1	290	1	350	25550	0.73	1	0.00
51	2072	0.00015	1.1	290	1	350	25550	0.73	1	0.00
52	2073	0.00015	1.1	290	1	350	25550	0.73	1	0.00
53	2074	0.00015	1.1	290	1	350	25550	0.73	1	0.00
54	2075	0.00015	1.1	290	1	350	25550	0.73	1	0.00
55	2076	0.00015	1.1	290	1	350	25550	0.73	1	0.00
56	2077	0.00015	1.1	290	1	350	25550	0.73	1	0.00
57	2078	0.00015	1.1	290	1	350	25550	0.73	1	0.00
58	2079	0.00015	1.1	290	1	350	25550	0.73	1	0.00
59	2080	0.00015	1.1	290	1	350	25550	0.73	1	0.00
60	2081	0.00015	1.1	290	1	350	25550	0.73	1	0.00
61	2082	0.00015	1.1	290	1	350	25550	0.73	1	0.00
62	2083	0.00015	1.1	290	1	350	25550	0.73	1	0.00
63	2084	0.00015	1.1	290	1	350	25550	0.73	1	0.00
64	2085	0.00015	1.1	290	1	350	25550	0.73	1	0.00
65	2086	0.00015	1.1	290	1	350	25550	0.73	1	0.00
66	2087	0.00015	1.1	290	1	350	25550	0.73	1	0.00
67	2088	0.00015	1.1	290	1	350	25550	0.73	1	0.00
68	2089	0.00015	1.1	290	1	350	25550	0.73	1	0.00
69	2090	0.00015	1.1	290	1	350	25550	0.73	1	0.00
70	2091	0.00015	1.1	290	1	350	25550	0.73	1	0.00

## 5770 Industrial Parkway Industrial Project

### Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Worker	25-year Exposure								Total Cancer risk
Annual DPM Concentration at Max Impacted Sensitive Receptor		0.00554 ug/m3								0.34
Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2022	0.00554	1.1	230	1	250	25550	1	1	0.01
2	2023	0.00554	1.1	230	1	250	25550	1	1	0.01
3	2024	0.00554	1.1	230	1	250	25550	1	1	0.01
4	2025	0.00554	1.1	230	1	250	25550	1	1	0.01
5	2026	0.00554	1.1	230	1	250	25550	1	1	0.01
6	2027	0.00554	1.1	230	1	250	25550	1	1	0.01
7	2028	0.00554	1.1	230	1	250	25550	1	1	0.01
8	2029	0.00554	1.1	230	1	250	25550	1	1	0.01
9	2030	0.00554	1.1	230	1	250	25550	1	1	0.01
10	2031	0.00554	1.1	230	1	250	25550	1	1	0.01
11	2032	0.00554	1.1	230	1	250	25550	1	1	0.01
12	2033	0.00554	1.1	230	1	250	25550	1	1	0.01
13	2034	0.00554	1.1	230	1	250	25550	1	1	0.01
14	2035	0.00554	1.1	230	1	250	25550	1	1	0.01
15	2036	0.00554	1.1	230	1	250	25550	1	1	0.01
16	2037	0.00554	1.1	230	1	250	25550	1	1	0.01
17	2038	0.00554	1.1	230	1	250	25550	1	1	0.01
18	2039	0.00554	1.1	230	1	250	25550	1	1	0.01
19	2040	0.00554	1.1	230	1	250	25550	1	1	0.01
20	2041	0.00554	1.1	230	1	250	25550	1	1	0.01
21	2042	0.00554	1.1	230	1	250	25550	1	1	0.01
22	2043	0.00554	1.1	230	1	250	25550	1	1	0.01
23	2044	0.00554	1.1	230	1	250	25550	1	1	0.01
24	2045	0.00554	1.1	230	1	250	25550	1	1	0.01
25	2046	0.00554	1.1	230	1	250	25550	1	1	0.01



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*APPENDIX C – AREMOD MODEL OUTPUT*

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```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 11/9/2021
** File: C:\Lakes\AERMOD View\5770_Industrial_Parkway\Updated.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE 5770 Industrial Project - DPM
  TITLETWO UPdated
  MODELOPT CONC FASTALL
  AVERTIME 1 PERIOD
  URBANOPT 2180085
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL Updated.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = IDLE1
** DESCRSRC Idling Sources on west side
** PREFIX
** Length of Side = 21.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.9261E-09
** Nodes = 2
** 466664.273, 3782870.558, 507.98, 3.66
** 466560.414, 3783003.697, 510.86, 3.66
** -----
-----

```

```

LOCATION A0000254      AREA      466672.552 3782877.016 508.36
** End of LINE AREA Source ID = IDLE1
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = IDLE2
** DESCRSRC Idling Trucks on east side
** PREFIX
** Length of Side = 21.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.9124E-09
** Nodes = 2
** 466602.776, 3783033.372, 511.61, 3.66
** 466707.188, 3782899.127, 508.93, 3.66
** -----
-----
LOCATION A0000255      AREA      466594.488 3783026.925 511.36
** End of LINE AREA Source ID = IDLE2
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = ONSITE1
** DESCRSRC Onsite Truck Travel
** PREFIX
** Length of Side = 9.66
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 7.7116E-10
** Nodes = 11
** 466754.502, 3782870.777, 508.96, 3.11
** 466740.056, 3782865.752, 508.74, 3.11
** 466727.494, 3782880.198, 508.49, 3.11
** 466597.479, 3783074.906, 512.97, 3.11
** 466569.843, 3783061.716, 512.52, 3.11
** 466534.670, 3783030.312, 512.29, 3.11
** 466656.520, 3782862.611, 507.94, 3.11
** 466674.735, 3782856.959, 507.79, 3.11
** 466708.024, 3782872.033, 507.93, 3.11
** 466739.428, 3782860.099, 508.60, 3.11
** 466758.899, 3782866.380, 508.89, 3.11
** -----
-----
LOCATION A0000256      AREA      466752.916 3782875.337 509.00
LOCATION A0000257      AREA      466743.700 3782868.920 508.81
LOCATION A0000258      AREA      466731.510 3782882.880 508.73
LOCATION A0000259      AREA      466688.172 3782947.782 509.72
LOCATION A0000260      AREA      466644.834 3783012.685 510.88
LOCATION A0000261      AREA      466595.400 3783079.264 513.44
LOCATION A0000262      AREA      466566.627 3783065.318 512.68
LOCATION A0000263      AREA      466530.764 3783027.473 512.07
LOCATION A0000264      AREA      466571.380 3782971.573 510.00

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LOCATION A0000265      AREA      466611.997 3782915.673 509.00
LOCATION A0000266      AREA      466655.089 3782858.000 507.73
LOCATION A0000267      AREA      466676.727 3782852.560 507.55
LOCATION A0000268      AREA      466706.308 3782867.519 508.04
LOCATION A0000269      AREA      466740.911 3782855.504 508.45
** End of LINE AREA Source ID = ONSITE1
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = OFFSITE1
** DESCRSRC Offsite1: I215 NB Offramp > Palm Ave> Industrial
Parkway>Project Dri
** PREFIX
** Length of Side = 9.66
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 2.099E-10
** Nodes = 6
** 466957.483, 3783197.880, 514.01, 3.11
** 466840.718, 3783322.810, 523.89, 3.11
** 466757.431, 3783416.712, 524.00, 3.11
** 466722.319, 3783444.475, 523.07, 3.11
** 466577.792, 3783163.585, 517.10, 3.11
** 466769.679, 3782877.796, 508.88, 3.11
** -----
-----
LOCATION A0000270      AREA      466961.011 3783201.177 514.89
LOCATION A0000271      AREA      466902.628 3783263.642 523.30
LOCATION A0000272      AREA      466844.330 3783326.015 523.85
LOCATION A0000273      AREA      466802.687 3783372.966 523.92
LOCATION A0000274      AREA      466760.426 3783420.500 523.35
LOCATION A0000275      AREA      466718.026 3783446.684 523.06
LOCATION A0000276      AREA      466681.894 3783376.462 523.01
LOCATION A0000277      AREA      466645.762 3783306.239 520.67
LOCATION A0000278      AREA      466609.630 3783236.017 519.00
LOCATION A0000279      AREA      466573.783 3783160.893 517.11
LOCATION A0000280      AREA      466621.755 3783089.446 516.74
LOCATION A0000281      AREA      466669.726 3783017.999 511.06
LOCATION A0000282      AREA      466717.698 3782946.552 509.98
** End of LINE AREA Source ID = OFFSITE1
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = OFFSITE2
** DESCRSRC Offsite2: Project Driveway > Industrial Parkway> Palm
Drive>I215 NB
** PREFIX
** Length of Side = 18.00
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 6.567E-11
** Nodes = 5

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** 466768.046, 3782879.429, 508.86, 3.11
** 466576.975, 3783162.769, 517.08, 3.11
** 466726.402, 3783449.374, 523.15, 3.11
** 466618.619, 3783525.312, 524.00, 3.11
** 466501.037, 3783605.333, 524.00, 3.11
** -----

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LOCATION A0000283      AREA      466775.507 3782884.461 509.00
LOCATION A0000284      AREA      466679.972 3783026.131 511.33
LOCATION A0000285      AREA      466584.956 3783158.608 517.88
LOCATION A0000286      AREA      466659.669 3783301.911 520.52
LOCATION A0000287      AREA      466731.586 3783456.731 522.73
LOCATION A0000288      AREA      466623.682 3783532.753 524.00

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** End of LINE AREA Source ID = OFFSITE2
** -----

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** Line Source Represented by Area Sources
** LINE AREA Source ID = OFFSITE3
** DESCRSRC Offsite 3: Project Driveway >Industrial Parkway >
Kendall Dr
** PREFIX
** Length of Side = 13.32
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 2.5368E-11
** Nodes = 7
** 466766.744, 3782887.708, 509.00, 3.11
** 466569.961, 3783176.234, 517.02, 3.11
** 466522.094, 3783226.759, 517.86, 3.11
** 466479.547, 3783366.369, 520.76, 3.11
** 466452.955, 3783532.571, 523.95, 3.11
** 466451.625, 3783576.448, 524.00, 3.11
** 466411.736, 3783609.688, 524.00, 3.11
** -----

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-----
LOCATION A0000289      AREA      466772.244 3782891.459 509.00
LOCATION A0000290      AREA      466706.649 3782987.634 511.00
LOCATION A0000291      AREA      466641.055 3783083.810 515.33
LOCATION A0000292      AREA      466574.794 3783180.813 517.74
LOCATION A0000293      AREA      466528.463 3783228.700 518.00
LOCATION A0000294      AREA      466507.189 3783298.505 519.41
LOCATION A0000295      AREA      466486.121 3783367.421 520.77
LOCATION A0000296      AREA      466472.825 3783450.522 522.48
LOCATION A0000297      AREA      466459.609 3783532.772 524.07
LOCATION A0000298      AREA      466455.887 3783581.563 524.03

```

```

** End of LINE AREA Source ID = OFFSITE3
** -----

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-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = OFFSITE4
** DESCRSRC Offsite 4: Project Driveway>Palm Ave>I215 SB Onramp
** PREFIX

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** Length of Side = 9.66
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 2.0934E-10
** Nodes = 8
** 466768.073, 3782883.719, 509.00, 3.11
** 466575.279, 3783160.279, 517.02, 3.11
** 466659.045, 3783318.503, 521.00, 3.11
** 466780.040, 3783184.212, 513.33, 3.11
** 466810.621, 3783168.256, 513.00, 3.11
** 466874.442, 3783169.586, 514.91, 3.11
** 466940.923, 3783170.915, 513.86, 3.11
** 467059.259, 3783083.161, 509.83, 3.11
** -----
-----
LOCATION A0000299      AREA      466772.034 3782886.480 509.00
LOCATION A0000300      AREA      466723.836 3782955.620 510.00
LOCATION A0000301      AREA      466675.637 3783024.760 511.29
LOCATION A0000302      AREA      466627.439 3783093.900 518.83
LOCATION A0000303      AREA      466579.547 3783158.019 517.46
LOCATION A0000304      AREA      466621.430 3783237.131 519.00
LOCATION A0000305      AREA      466655.457 3783315.270 520.97
LOCATION A0000306      AREA      466715.955 3783248.125 518.50
LOCATION A0000307      AREA      466777.806 3783179.930 512.98
LOCATION A0000308      AREA      466810.721 3783163.428 512.93
LOCATION A0000309      AREA      466874.539 3783164.758 514.76
LOCATION A0000310      AREA      466938.047 3783167.037 514.04
LOCATION A0000311      AREA      466997.215 3783123.160 512.10
** End of LINE AREA Source ID = OFFSITE4
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = OFFSITE5
** DESCRSRC Offsite5: I215SB Offramp>Palm Ave>Industrial Parkway>
Project Drivewa
** PREFIX
** Length of Side = 9.66
** Ratio = 10
** Vertical Dimension = 2.89
** Emission Rate = 1.2193E-10
** Nodes = 10
** 466710.900, 3783374.347, 523.84, 3.11
** 466821.258, 3783266.648, 519.33, 3.11
** 466855.828, 3783230.748, 518.75, 3.11
** 466859.817, 3783190.860, 516.30, 3.11
** 466837.213, 3783174.904, 513.91, 3.11
** 466794.666, 3783177.564, 512.48, 3.11
** 466730.844, 3783240.055, 518.06, 3.11
** 466657.715, 3783314.514, 520.99, 3.11
** 466577.938, 3783162.938, 517.11, 3.11
** 466769.403, 3782882.389, 509.00, 3.11
** -----

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LOCATION A0000312      AREA      466707.527 3783370.891 523.52
LOCATION A0000313      AREA      466762.706 3783317.041 522.47
LOCATION A0000314      AREA      466817.780 3783263.298 519.94
LOCATION A0000315      AREA      466851.023 3783230.268 519.10
LOCATION A0000316      AREA      466857.032 3783194.805 516.48
LOCATION A0000317      AREA      466837.514 3783179.724 514.75
LOCATION A0000318      AREA      466798.044 3783181.014 513.00
LOCATION A0000319      AREA      466734.289 3783243.439 518.15
LOCATION A0000320      AREA      466697.725 3783280.668 519.82
LOCATION A0000321      AREA      466653.442 3783316.763 521.02
LOCATION A0000322      AREA      466613.554 3783240.975 519.00
LOCATION A0000323      AREA      466573.950 3783160.216 517.10
LOCATION A0000324      AREA      466621.816 3783090.079 516.96
LOCATION A0000325      AREA      466669.682 3783019.941 511.12
LOCATION A0000326      AREA      466717.548 3782949.804 509.98
** End of LINE AREA Source ID = OFFSITE5
** Source Parameters **
** LINE AREA Source ID = IDLE1
SRCPARAM A0000254      1.9261E-09      3.658      168.858
21.000 -127.957
** -----
-----
** LINE AREA Source ID = IDLE2
SRCPARAM A0000255      1.9124E-09      3.658      170.069      21.000
52.125
** -----
-----
** LINE AREA Source ID = ONSITE1
SRCPARAM A0000256      7.7116E-10      3.109      15.295      9.658
160.821      2.892
SRCPARAM A0000257      7.7116E-10      3.109      19.144
9.658 -131.009      2.892
SRCPARAM A0000258      7.7116E-10      3.109      78.042
9.658 -123.733      2.892
SRCPARAM A0000259      7.7116E-10      3.109      78.042
9.658 -123.733      2.892
SRCPARAM A0000260      7.7116E-10      3.109      78.042
9.658 -123.733      2.892
SRCPARAM A0000261      7.7116E-10      3.109      30.622      9.658
154.486      2.892
SRCPARAM A0000262      7.7116E-10      3.109      47.153      9.658
138.240      2.892
SRCPARAM A0000263      7.7116E-10      3.109      69.098      9.658
53.998      2.892
SRCPARAM A0000264      7.7116E-10      3.109      69.098      9.658
53.998      2.892
SRCPARAM A0000265      7.7116E-10      3.109      69.098      9.658
53.998      2.892
SRCPARAM A0000266      7.7116E-10      3.109      19.072      9.658
17.241      2.892
SRCPARAM A0000267      7.7116E-10      3.109      36.543

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9.658	-24.362	2.892				
	SRCPARAM A0000268		7.7116E-10	3.109	33.596	9.658
20.807	2.892					
	SRCPARAM A0000269		7.7116E-10	3.109	20.459	
9.658	-17.879	2.892				

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\*\* LINE AREA Source ID = OFFSITE1

	SRCPARAM A0000270		2.099E-10	3.109	85.501	
9.658	-133.065	2.892				
	SRCPARAM A0000271		2.099E-10	3.109	85.501	
9.658	-133.065	2.892				
	SRCPARAM A0000272		2.099E-10	3.109	62.758	
9.658	-131.572	2.892				
	SRCPARAM A0000273		2.099E-10	3.109	62.758	
9.658	-131.572	2.892				
	SRCPARAM A0000274		2.099E-10	3.109	44.761	
9.658	-141.667	2.892				
	SRCPARAM A0000275		2.099E-10	3.109	78.973	9.658
117.227	2.892					
	SRCPARAM A0000276		2.099E-10	3.109	78.973	9.658
117.227	2.892					
	SRCPARAM A0000277		2.099E-10	3.109	78.973	9.658
117.227	2.892					
	SRCPARAM A0000278		2.099E-10	3.109	78.973	9.658
117.227	2.892					
	SRCPARAM A0000279		2.099E-10	3.109	86.058	9.658
56.121	2.892					
	SRCPARAM A0000280		2.099E-10	3.109	86.058	9.658
56.121	2.892					
	SRCPARAM A0000281		2.099E-10	3.109	86.058	9.658
56.121	2.892					
	SRCPARAM A0000282		2.099E-10	3.109	86.058	9.658
56.121	2.892					

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-----

\*\* LINE AREA Source ID = OFFSITE2

	SRCPARAM A0000283		6.567E-11	3.109	170.872	
18.000	-123.994	2.892				
	SRCPARAM A0000284		6.567E-11	3.109	170.872	
18.000	-123.994	2.892				
	SRCPARAM A0000285		6.567E-11	3.109	161.610	
18.000	-62.464	2.892				
	SRCPARAM A0000286		6.567E-11	3.109	161.610	
18.000	-62.464	2.892				
	SRCPARAM A0000287		6.567E-11	3.109	131.848	
18.000	-144.834	2.892				
	SRCPARAM A0000288		6.567E-11	3.109	142.228	
18.000	-145.763	2.892				

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-----

\*\* LINE AREA Source ID = OFFSITE3

	SRCPARAM A0000289	2.5368E-11	3.109	116.415	
13.315	-124.295	2.892			
	SRCPARAM A0000290	2.5368E-11	3.109	116.415	
13.315	-124.295	2.892			
	SRCPARAM A0000291	2.5368E-11	3.109	116.415	
13.315	-124.295	2.892			
	SRCPARAM A0000292	2.5368E-11	3.109	69.599	
13.315	-133.452	2.892			
	SRCPARAM A0000293	2.5368E-11	3.109	72.975	
13.315	-106.949	2.892			
	SRCPARAM A0000294	2.5368E-11	3.109	72.975	
13.315	-106.949	2.892			
	SRCPARAM A0000295	2.5368E-11	3.109	84.158	
13.315	-99.090	2.892			
	SRCPARAM A0000296	2.5368E-11	3.109	84.158	
13.315	-99.090	2.892			
	SRCPARAM A0000297	2.5368E-11	3.109	43.897	
13.315	-91.736	2.892			
	SRCPARAM A0000298	2.5368E-11	3.109	51.923	
13.315	-140.194	2.892			
**	-----				
-----					
**	LINE AREA Source ID = OFFSITE4				
	SRCPARAM A0000299	2.0934E-10	3.109	84.282	
9.658	-124.881	2.892			
	SRCPARAM A0000300	2.0934E-10	3.109	84.282	
9.658	-124.881	2.892			
	SRCPARAM A0000301	2.0934E-10	3.109	84.282	
9.658	-124.881	2.892			
	SRCPARAM A0000302	2.0934E-10	3.109	84.282	
9.658	-124.881	2.892			
	SRCPARAM A0000303	2.0934E-10	3.109	89.515	
9.658	-62.103	2.892			
	SRCPARAM A0000304	2.0934E-10	3.109	89.515	
9.658	-62.103	2.892			
	SRCPARAM A0000305	2.0934E-10	3.109	90.380	9.658
47.981	2.892				
	SRCPARAM A0000306	2.0934E-10	3.109	90.380	9.658
47.981	2.892				
	SRCPARAM A0000307	2.0934E-10	3.109	34.493	9.658
27.553	2.892				
	SRCPARAM A0000308	2.0934E-10	3.109	63.835	
9.658	-1.193	2.892			
	SRCPARAM A0000309	2.0934E-10	3.109	66.494	
9.658	-1.146	2.892			
	SRCPARAM A0000310	2.0934E-10	3.109	73.662	9.658
36.560	2.892				
	SRCPARAM A0000311	2.0934E-10	3.109	73.662	9.658
36.560	2.892				
**	-----				
-----					
**	LINE AREA Source ID = OFFSITE5				

44.301	SRCPARAM A0000312	1.2193E-10	3.109	77.100	9.658
	2.892				
44.301	SRCPARAM A0000313	1.2193E-10	3.109	77.100	9.658
	2.892				
46.081	SRCPARAM A0000314	1.2193E-10	3.109	49.838	9.658
	2.892				
84.289	SRCPARAM A0000315	1.2193E-10	3.109	40.087	9.658
	2.892				
144.782	SRCPARAM A0000316	1.2193E-10	3.109	27.667	9.658
	2.892				
9.658	SRCPARAM A0000317	1.2193E-10	3.109	42.631	
	-176.424	2.892			
9.658	SRCPARAM A0000318	1.2193E-10	3.109	89.322	
	-135.603	2.892			
9.658	SRCPARAM A0000319	1.2193E-10	3.109	52.182	
	-134.484	2.892			
9.658	SRCPARAM A0000320	1.2193E-10	3.109	52.182	
	-134.484	2.892			
117.759	SRCPARAM A0000321	1.2193E-10	3.109	85.644	9.658
	2.892				
117.759	SRCPARAM A0000322	1.2193E-10	3.109	85.644	9.658
	2.892				
55.688	SRCPARAM A0000323	1.2193E-10	3.109	84.914	9.658
	2.892				
55.688	SRCPARAM A0000324	1.2193E-10	3.109	84.914	9.658
	2.892				
55.688	SRCPARAM A0000325	1.2193E-10	3.109	84.914	9.658
	2.892				
55.688	SRCPARAM A0000326	1.2193E-10	3.109	84.914	9.658
	2.892				

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

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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

\*\* AERMOD Receptor Pathway

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

RE STARTING  
INCLUDED Updated.rou

RE FINISHED

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

\*\* AERMOD Meteorology Pathway

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

ME STARTING  
SURFFILE FONT\_v9.SFC

```

PROFFILE FONT_v9.PFL
SURFDATA 3102_2011
UAIRDATA 3190 2011
SITEDATA 99999 2011
PROFBASE 289.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST UPDATED.AD\01H1GALL.PLT 31
PLOTFILE PERIOD ALL UPDATED.AD\PE00GALL.PLT 32
SUMMFILE Updated.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      372      MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used           0.50
ME W187      372      MEOPEN: ADJ_U* Option for Stable Low Winds
used in AERMET

```

```

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

```

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 1

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* MODEL SETUP

OPTIONS SUMMARY \*\*\*

-----  
-----

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

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

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

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

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 73 Source(s),

for Total of 1 Urban Area(s):

Urban Population = 2180085.0 ; Urban Roughness Length = 1.000 m

\*\*Model Allows User-Specified Options:

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

\*\*Other Options Specified:

FASTALL - Use effective sigma-y to optimize meander for POINT and VOLUME sources, and hybrid approach to optimize AREA sources (formerly TOXICS

option)

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR  
and Calculates PERIOD Averages

\*\*This Run Includes: 73 Source(s); 1 Source Group(s);  
and 1339 Receptor(s)  
  
with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 73 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)

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

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:  
Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by  
Receptor (RECTABLE Keyword)  
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) =  
289.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units =  
GRAMS/SEC ; Emission Rate Unit  
Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of  
RAM.

\*\*Input Runstream File: aermod.inp  
\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Updated.err  
\*\*File for Summary of Results: Updated.sum

```

*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                                ***                               11/09/21
*** AERMET - VERSION 16216 ***    *** Updated
***                               11:21:10

```

```

PAGE 2
*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

```

\*\*\* AREA SOURCE

DATA \*\*\*

RELEASE RATE	X-DIM	NUMBER PART. OF AREA	EMISSION RATE (GRAMS/SEC OF AREA)	ORIENT. (DEG.)	COORD (SW CORNER) INIT. (METERS)	URBAN SOURCE (METERS)	BASE EMISSION ELEV. SCALAR (METERS) BY
A0000254		0	0.19261E-08		466672.6	3782877.0	508.4
3.66	168.86	21.00	-127.96		0.00	YES	
A0000255		0	0.19124E-08		466594.5	3783026.9	511.4
3.66	170.07	21.00	52.13		0.00	YES	
A0000256		0	0.77116E-09		466752.9	3782875.3	509.0
3.11	15.29	9.66	160.82		2.89	YES	
A0000257		0	0.77116E-09		466743.7	3782868.9	508.8
3.11	19.14	9.66	-131.01		2.89	YES	
A0000258		0	0.77116E-09		466731.5	3782882.9	508.7
3.11	78.04	9.66	-123.73		2.89	YES	
A0000259		0	0.77116E-09		466688.2	3782947.8	509.7
3.11	78.04	9.66	-123.73		2.89	YES	
A0000260		0	0.77116E-09		466644.8	3783012.7	510.9
3.11	78.04	9.66	-123.73		2.89	YES	
A0000261		0	0.77116E-09		466595.4	3783079.3	513.4
3.11	30.62	9.66	154.49		2.89	YES	
A0000262		0	0.77116E-09		466566.6	3783065.3	512.7
3.11	47.15	9.66	138.24		2.89	YES	
A0000263		0	0.77116E-09		466530.8	3783027.5	512.1
3.11	69.10	9.66	54.00		2.89	YES	
A0000264		0	0.77116E-09		466571.4	3782971.6	510.0
3.11	69.10	9.66	54.00		2.89	YES	
A0000265		0	0.77116E-09		466612.0	3782915.7	509.0
3.11	69.10	9.66	54.00		2.89	YES	
A0000266		0	0.77116E-09		466655.1	3782858.0	507.7
3.11	19.07	9.66	17.24		2.89	YES	
A0000267		0	0.77116E-09		466676.7	3782852.6	507.6
3.11	36.54	9.66	-24.36		2.89	YES	



A0000268	0	0.77116E-09	466706.3	3782867.5	508.0
3.11	33.60	9.66	20.81	2.89	YES
A0000269	0	0.77116E-09	466740.9	3782855.5	508.4
3.11	20.46	9.66	-17.88	2.89	YES
A0000270	0	0.20990E-09	466961.0	3783201.2	514.9
3.11	85.50	9.66	-133.06	2.89	YES
A0000271	0	0.20990E-09	466902.6	3783263.6	523.3
3.11	85.50	9.66	-133.06	2.89	YES
A0000272	0	0.20990E-09	466844.3	3783326.0	523.8
3.11	62.76	9.66	-131.57	2.89	YES
A0000273	0	0.20990E-09	466802.7	3783373.0	523.9
3.11	62.76	9.66	-131.57	2.89	YES
A0000274	0	0.20990E-09	466760.4	3783420.5	523.3
3.11	44.76	9.66	-141.67	2.89	YES
A0000275	0	0.20990E-09	466718.0	3783446.7	523.1
3.11	78.97	9.66	117.23	2.89	YES
A0000276	0	0.20990E-09	466681.9	3783376.5	523.0
3.11	78.97	9.66	117.23	2.89	YES
A0000277	0	0.20990E-09	466645.8	3783306.2	520.7
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A0000278	0	0.20990E-09	466609.6	3783236.0	519.0
3.11	78.97	9.66	117.23	2.89	YES
A0000279	0	0.20990E-09	466573.8	3783160.9	517.1
3.11	86.06	9.66	56.12	2.89	YES
A0000280	0	0.20990E-09	466621.8	3783089.4	516.7
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A0000281	0	0.20990E-09	466669.7	3783018.0	511.1
3.11	86.06	9.66	56.12	2.89	YES
A0000282	0	0.20990E-09	466717.7	3782946.6	510.0
3.11	86.06	9.66	56.12	2.89	YES
A0000283	0	0.65670E-10	466775.5	3782884.5	509.0
3.11	170.87	18.00	-123.99	2.89	YES
A0000284	0	0.65670E-10	466680.0	3783026.1	511.3
3.11	170.87	18.00	-123.99	2.89	YES
A0000285	0	0.65670E-10	466585.0	3783158.6	517.9
3.11	161.61	18.00	-62.46	2.89	YES
A0000286	0	0.65670E-10	466659.7	3783301.9	520.5
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A0000287	0	0.65670E-10	466731.6	3783456.7	522.7
3.11	131.85	18.00	-144.83	2.89	YES
A0000288	0	0.65670E-10	466623.7	3783532.8	524.0
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3.11	116.42	13.32	-124.30	2.89	YES
A0000290	0	0.25368E-10	466706.6	3782987.6	511.0
3.11	116.42	13.32	-124.30	2.89	YES
A0000291	0	0.25368E-10	466641.1	3783083.8	515.3
3.11	116.42	13.32	-124.30	2.89	YES
A0000292	0	0.25368E-10	466574.8	3783180.8	517.7
3.11	69.60	13.32	-133.45	2.89	YES
A0000293	0	0.25368E-10	466528.5	3783228.7	518.0
3.11	72.97	13.32	-106.95	2.89	YES





A0000308		0	0.20934E-09	466810.7	3783163.4	512.9
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A0000311		0	0.20934E-09	466997.2	3783123.2	512.1
3.11	73.66	9.66	36.56	2.89	YES	
A0000312		0	0.12193E-09	466707.5	3783370.9	523.5
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3.11	77.10	9.66	44.30	2.89	YES	
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A0000325		0	0.12193E-09	466669.7	3783019.9	511.1
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A0000326		0	0.12193E-09	466717.5	3782949.8	510.0
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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***          11/09/21
*** AERMET - VERSION 16216 ***    *** UPdated
***          11:21:10

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PAGE 4

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* SOURCE IDs

DEFINING SOURCE GROUPS \*\*\*

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***                11/09/21
*** AERMET - VERSION 16216 ***   *** UPdated
***          11:21:10

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PAGE 5

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*** MODELOPTs:   NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* SOURCE IDs DEFINED

AS URBAN SOURCES \*\*\*

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***          11/09/21
*** AERMET - VERSION 16216 ***    *** UPdated
***          11:21:10

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PAGE 6

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 7

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 8

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***                               11/09/21
*** AERMET - VERSION 16216 ***   *** Updated
***                               11:21:10

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PAGE 9

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 10

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 11

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***                11/09/21
*** AERMET - VERSION 16216 ***   *** Updated
***                11:21:10

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PAGE 12

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***                               11/09/21
*** AERMET - VERSION 16216 ***    *** Updated
***                               11:21:10

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PAGE 13

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 14

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***                               11/09/21
*** AERMET - VERSION 16216 ***   *** Updated
***                               11:21:10

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PAGE 15

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 16

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***          11/09/21
*** AERMET - VERSION 16216 ***    *** Updated
***          11:21:10

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PAGE 17

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 18

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***                11/09/21
*** AERMET - VERSION 16216 ***    *** Updated
***                11:21:10

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PAGE 19

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***                11/09/21
*** AERMET - VERSION 16216 ***    *** UPdated
***                11:21:10

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PAGE 20

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

```

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\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 21

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL

DAYS SELECTED FOR PROCESSING \*\*\*

(1

=YES; 0=NO)

1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1

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)

5.14, 8.23, 10.80, 1.54, 3.09,

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***                11/09/21
*** AERMET - VERSION 16216 ***   *** UPdated
***                11:21:10

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PAGE 22

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*** MODELOPTs:   NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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\*\*\* UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA \*\*\*

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Surface file:  FONT_v9.SFC
Met Version:  16216
Profile file:  FONT_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3102           Upper air
station no.:    3190
                Name: UNKNOWN
Name: UNKNOWN
                Year: 2011
Year: 2011

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN
Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT			
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.		41.2
0.25	2.82	1.00		1.80	69.	9.1	276.4	5.5				
11	01	01	1	02	-23.8	0.239	-9.000	-9.000	-999.	281.		63.0
0.25	2.82	1.00		2.20	52.	9.1	275.4	5.5				
11	01	01	1	03	-18.5	0.194	-9.000	-9.000	-999.	205.		41.2
0.25	2.82	1.00		1.80	32.	9.1	275.4	5.5				
11	01	01	1	04	-1.4	0.067	-9.000	-9.000	-999.	57.		18.3
0.25	2.82	1.00		0.40	27.	9.1	274.2	5.5				
11	01	01	1	05	-18.6	0.194	-9.000	-9.000	-999.	204.		41.2
0.25	2.82	1.00		1.80	51.	9.1	274.2	5.5				
11	01	01	1	06	-29.7	0.296	-9.000	-9.000	-999.	387.		96.6
0.25	2.82	1.00		2.70	53.	9.1	274.2	5.5				
11	01	01	1	07	-24.0	0.239	-9.000	-9.000	-999.	282.		63.0
0.25	2.82	1.00		2.20	70.	9.1	274.2	5.5				
11	01	01	1	08	-8.4	0.138	-9.000	-9.000	-999.	127.		27.3
0.25	2.82	0.54		1.30	72.	9.1	275.4	5.5				
11	01	01	1	09	44.3	0.280	0.571	0.005	147.	356.		-43.5
0.25	2.82	0.32		2.20	67.	9.1	277.5	5.5				
11	01	01	1	10	122.7	0.264	0.952	0.005	247.	326.		-13.2
0.25	2.82	0.25		1.80	83.	9.1	279.9	5.5				
11	01	01	1	11	179.8	0.316	1.733	0.005	1017.	426.		-15.4
0.25	2.82	0.22		2.20	58.	9.1	282.0	5.5				
11	01	01	1	12	206.0	0.320	1.940	0.008	1244.	435.		-14.0
0.25	2.82	0.21		2.20	115.	9.1	283.1	5.5				

11	01	01	1	13	132.6	0.214	1.733	0.009	1377.	243.	-6.5
0.25	2.82	0.21		1.30	147.		9.1	284.2	5.5		
11	01	01	1	14	147.0	0.216	1.818	0.009	1431.	242.	-6.0
0.25	2.82	0.23		1.30	219.		9.1	284.9	5.5		
11	01	01	1	15	104.0	0.208	1.633	0.009	1468.	228.	-7.6
0.25	2.82	0.26		1.30	126.		9.1	285.4	5.5		
11	01	01	1	16	26.4	0.140	1.037	0.009	1477.	127.	-9.1
0.25	2.82	0.35		0.90	151.		9.1	284.9	5.5		
11	01	01	1	17	-9.0	0.137	-9.000	-9.000	-999.	121.	24.9
0.25	2.82	0.63		1.30	69.		9.1	283.1	5.5		
11	01	01	1	18	-33.4	0.342	-9.000	-9.000	-999.	481.	129.0
0.25	2.82	1.00		3.10	81.		9.1	281.4	5.5		
11	01	01	1	19	-33.6	0.342	-9.000	-9.000	-999.	481.	128.9
0.25	2.82	1.00		3.10	51.		9.1	279.9	5.5		
11	01	01	1	20	-23.6	0.239	-9.000	-9.000	-999.	287.	63.1
0.25	2.82	1.00		2.20	77.		9.1	278.8	5.5		
11	01	01	1	21	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2
0.25	2.82	1.00		1.80	53.		9.1	277.5	5.5		
11	01	01	1	22	-23.7	0.239	-9.000	-9.000	-999.	281.	63.0
0.25	2.82	1.00		2.20	58.		9.1	277.5	5.5		
11	01	01	1	23	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2
0.25	2.82	1.00		1.80	64.		9.1	277.5	5.5		
11	01	01	1	24	-4.5	0.094	-9.000	-9.000	-999.	74.	16.3
0.25	2.82	1.00		0.90	52.		9.1	277.0	5.5		

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
11	01	01	01	5.5	0	-999.	-99.00	276.5			
99.0	-99.00	-99.00									
11	01	01	01	9.1	1	69.	1.80	-999.0			
99.0	-99.00	-99.00									

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





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464494.19	3785301.07	0.00000	
	464331.77	3785404.64	0.00000
464320.99	3785413.18	0.00000	
	464333.50	3785426.33	0.00000
464382.57	3785450.35	0.00000	
	464371.97	3785457.80	0.00000
464344.61	3785447.61	0.00000	
	464325.66	3785441.50	0.00000
464296.19	3785444.99	0.00000	
	464281.23	3785453.10	0.00000
464279.63	3785476.78	0.00000	
	464244.64	3785497.62	0.00000
464223.02	3785516.41	0.00000	
	464124.20	3785618.22	0.00000
464101.57	3785637.43	0.00000	
	464073.13	3785655.53	0.00000
464058.85	3785673.50	0.00000	
	464026.15	3785703.31	0.00000
463992.25	3785731.22	0.00000	
	463956.56	3785788.81	0.00000
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463816.60	3785919.97	0.00000	
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463703.17	3786012.63	0.00000	
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	466704.92	3782740.29	0.00040
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	466784.92	3782740.29	0.00022
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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                               ***          11/09/21
*** AERMET - VERSION 16216 ***    *** UPdated
***          11:21:10

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PAGE 31

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*** MODELOPTs:      NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):

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\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

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MICROGRAMS/M**3                ** CONC OF DPM      IN
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	468124.92	3784340.29	0.00002
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464552.97	3785308.87	0.00035	(15062206)
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464494.19	3785301.07	0.00035	(13062606)
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464320.99	3785413.18	0.00034	(13062606)
464333.50	3785426.33	0.00034	(13062606)
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464325.66	3785441.50	0.00033	(13062606)
464296.19	3785444.99	0.00034	(13062606)
464281.23	3785453.10	0.00033	(13062606)
464279.63	3785476.78	0.00033	(13062606)
464244.64	3785497.62	0.00033	(13062606)
464223.02	3785516.41	0.00032	(13062606)
464124.20	3785618.22	0.00031	(13062606)
464101.57	3785637.43	0.00030	(13062606)
464073.13	3785655.53	0.00030	(13062606)
464058.85	3785673.50	0.00030	(13062606)
464026.15	3785703.31	0.00030	(13062606)
463992.25	3785731.22	0.00029	(13062606)
463956.56	3785788.81	0.00028	(13062606)
463904.06	3785825.15	0.00028	(13062606)
463884.32	3785846.42	0.00028	(13062606)
463865.63	3785922.61	0.00026	(13062606)
463813.96	3785893.34	0.00027	(13062606)
463816.60	3785919.97	0.00027	(13062606)
463722.48	3785986.57	0.00026	(13062606)
463703.17	3786012.63	0.00026	(13062606)
463696.63	3786049.91	0.00025	(13062606)
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463639.11	3786092.83	0.00025	(13062606)
463612.60	3786088.61	0.00025	(13062606)
463583.37	3786116.49	0.00025	(13062606)
463523.82	3786173.44	0.00024	(13062606)
463473.99	3786228.98	0.00024	(13062606)
463461.22	3786244.93	0.00023	(13062606)
463442.99	3786291.23	0.00023	(13062606)
463397.02	3786311.80	0.00023	(13062606)
463376.47	3786334.33	0.00023	(13062606)
463357.79	3786345.97	0.00022	(13062606)
463314.42	3786366.12	0.00022	(13062606)
466998.50	3783490.73	0.00196	(13012217)
466967.25	3783504.13	0.00193	(13012217)
467045.83	3783465.04	0.00191	(13012217)
466785.09	3783598.61	0.00243	(11040607)
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466544.92	3782740.29	0.00576	(16100207)
466564.92	3782740.29	0.00635	(15071206)
466584.92	3782740.29	0.00686	(15071206)
466604.92	3782740.29	0.00707	(15071206)

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466644.92	3782740.29		0.00753	(13051406)	
	466664.92	3782740.29		0.00757	(15071906)
466684.92	3782740.29		0.00779	(15071906)	
	466704.92	3782740.29		0.00749	(15071906)
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	466744.92	3782740.29		0.00722	(13061706)
466764.92	3782740.29		0.00680	(13061706)	
	466784.92	3782740.29		0.00650	(13032607)
466804.92	3782740.29		0.00609	(13032607)	



	466824.92	3782760.29		0.00603	(16070906)
466844.92	3782760.29		0.00584	(16070906)	
	466864.92	3782760.29		0.00549	(16070906)
466524.92	3782780.29		0.00658	(15033007)	
	466544.92	3782780.29		0.00689	(15033007)
466564.92	3782780.29		0.00728	(16100207)	
	466584.92	3782780.29		0.00819	(15071206)
466604.92	3782780.29		0.00891	(15071206)	
	466624.92	3782780.29		0.00925	(15071106)
466644.92	3782780.29		0.00977	(13051406)	
	466664.92	3782780.29		0.01004	(15071906)
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466724.92	3782780.29		0.00940	(13061706)	
	466744.92	3782780.29		0.00885	(13061706)
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	466784.92	3782780.29		0.00772	(13032607)
466804.92	3782780.29		0.00709	(16070906)	
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466804.92	3782800.29		0.00817	(16070906)	
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466844.92	3782800.29		0.00690	(13061806)	
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	466664.92	3782820.29		0.01474	(15071906)
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	466704.92	3782820.29		0.01315	(13061706)
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	466744.92	3782820.29		0.01182	(13032607)
466764.92	3782820.29		0.01074	(16070906)	

	466784.92	3782820.29		0.01017	(16070906)
466804.92	3782820.29		0.00920	(13061806)	
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466844.92	3782820.29		0.00712	(13061806)	
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466564.92	3782840.29		0.00987	(16062606)	
	466584.92	3782840.29		0.01095	(15033007)
466604.92	3782840.29		0.01280	(15071206)	

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*** AERMOD - VERSION 21112 ***    *** 5770 Industrial Project -
DPM                                ***                      11/09/21
*** AERMET - VERSION 16216 ***    *** UPdated
***                               11:21:10

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PAGE 42

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*** MODELOPTs:   NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):

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A0000274 ,
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A0000278 , A0000279 , A0000280 ,
A0000281 , . . . ,

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\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

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MICROGRAMS/M**3          ** CONC OF DPM      IN
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466664.92	3782840.29	0.01935	(15071906)
466684.92	3782840.29	0.01768	(13053006)
466704.92	3782840.29	0.01545	(13061706)
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466744.92	3782840.29	0.01458	(13032607)
466764.92	3782840.29	0.01379	(16070906)
466784.92	3782840.29	0.01184	(13061806)
466804.92	3782840.29	0.00994	(13061806)
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466844.92	3782840.29	0.00687	(13061806)
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466544.92	3782860.29	0.00972	(13071606)
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466584.92	3782860.29	0.01217	(16062606)
466604.92	3782860.29	0.01551	(15071206)



	466624.92	3782860.29	0.01911	(15071206)
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	466664.92	3782860.29	0.02842	(13061706)
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	466704.92	3782860.29	0.01904	(13032607)
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	466744.92	3782860.29	0.02234	(13061806)
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	466784.92	3782860.29	0.01254	(13061806)
466804.92	3782860.29	0.00976	(13061806)	
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	466864.92	3782860.29	0.00616	(15073006)
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	466544.92	3782880.29	0.01079	(13071606)
466564.92	3782880.29	0.01218	(13071606)	
	466584.92	3782880.29	0.01402	(13071606)
466604.92	3782880.29	0.01826	(15071206)	
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	466664.92	3782880.29	0.02640	(16070906)
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	466704.92	3782880.29	0.01945	(13061706)
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466764.92	3782880.29	0.01553	(13061806)	
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	466824.92	3782880.29	0.00785	(15073006)
466844.92	3782880.29	0.00666	(16070806)	
	466864.92	3782880.29	0.00600	(16070806)
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	466584.92	3782900.29	0.01645	(13071606)
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	466784.92	3782900.29	0.01212	(16070806)
466804.92	3782900.29	0.00995	(16070806)	
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	466704.92	3782920.29		0.02833	(13061806)
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466764.92	3782920.29		0.01504	(16070806)	



	466784.92	3782940.29	0.01080	(16070806)
466804.92	3782940.29	0.00923	(16070806)	
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466844.92	3782940.29	0.00718	(16070806)	
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	466544.92	3782960.29	0.01842	(12071406)
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	466584.92	3782960.29	0.02977	(16071706)
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	466864.92	3782960.29	0.00600	(16053106)
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466804.92	3782980.29	0.00817	(16070106)	
	466824.92	3782980.29	0.00732	(16070106)
466844.92	3782980.29	0.00660	(16070106)	
	466864.92	3782980.29	0.00597	(16070106)
466524.92	3783000.29	0.01677	(16071706)	
	466544.92	3783000.29	0.02522	(16071706)
466564.92	3783000.29	0.03216	(13062606)	
	466584.92	3783000.29	0.01995	(13062006)
466604.92	3783000.29	0.01790	(13071906)	
	466624.92	3783000.29	0.02580	(15062206)
466644.92	3783000.29	0.02617	(13071506)	
	466664.92	3783000.29	0.02021	(13012217)
466684.92	3783000.29	0.01616	(16071506)	
	466704.92	3783000.29	0.01541	(16071506)
466724.92	3783000.29	0.01245	(16071506)	

	466744.92	3783000.29		0.01054	(15101707)
466764.92	3783000.29		0.00919	(15101707)	
	466784.92	3783000.29		0.00831	(16070106)
466804.92	3783000.29		0.00756	(16070106)	
	466824.92	3783000.29		0.00691	(16070106)
466844.92	3783000.29		0.00633	(16070106)	
	466864.92	3783000.29		0.00581	(16070106)
466524.92	3783020.29		0.01495	(11101107)	
	466544.92	3783020.29		0.02294	(13062606)
466564.92	3783020.29		0.02058	(15062206)	

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*** AERMOD - VERSION 21112 ***   *** 5770 Industrial Project -
DPM                               ***   11/09/21
*** AERMET - VERSION 16216 ***   *** UPdated
***                               11:21:10

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PAGE 44

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*** MODELOPTs:   NonDEFAULT  CONC  ELEV  FASTALL  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
A0000254 , A0000255 , A0000256 , A0000257 ,
A0000258 ,
      A0000259 , A0000260 , A0000261 ,
A0000262 , A0000263 , A0000264 , A0000265 ,
A0000266 ,
      A0000267 , A0000268 , A0000269 ,
A0000270 , A0000271 , A0000272 , A0000273 ,
A0000274 ,
      A0000275 , A0000276 , A0000277 ,
A0000278 , A0000279 , A0000280 ,
A0000281 , . . . ,

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\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
466584.92	3783020.29	0.01758	(13062606)
466604.92	3783020.29	0.02654	(15062206)
466624.92	3783020.29	0.02728	(13062006)
466644.92	3783020.29	0.02297	(13062006)
466664.92	3783020.29	0.01677	(11040607)
466684.92	3783020.29	0.01623	(16071506)
466704.92	3783020.29	0.01311	(16071506)
466724.92	3783020.29	0.01116	(16071506)
466744.92	3783020.29	0.00966	(16071506)
466764.92	3783020.29	0.00856	(15101707)
466784.92	3783020.29	0.00768	(15101707)
466804.92	3783020.29	0.00689	(15101707)
466824.92	3783020.29	0.00630	(16070106)
466844.92	3783020.29	0.00587	(16070106)
466864.92	3783020.29	0.00547	(16070106)
466524.92	3783040.29	0.01605	(13062606)
466544.92	3783040.29	0.01749	(13062606)
466564.92	3783040.29	0.01620	(15062206)

466584.92	3783040.29	0.01989	(15062206)
466604.92	3783040.29	0.02730	(16071006)
466624.92	3783040.29	0.02617	(13062006)
466644.92	3783040.29	0.01746	(11040607)
466664.92	3783040.29	0.01748	(11040607)
466684.92	3783040.29	0.01367	(13012217)
466704.92	3783040.29	0.01156	(13012217)
466724.92	3783040.29	0.00997	(16071506)
466744.92	3783040.29	0.00888	(16071506)
466764.92	3783040.29	0.00797	(16071506)
466784.92	3783040.29	0.00715	(15101707)
466804.92	3783040.29	0.00657	(15101707)
466824.92	3783040.29	0.00601	(15101707)
466844.92	3783040.29	0.00547	(15101707)
466864.92	3783040.29	0.00498	(16070106)
466524.92	3783060.29	0.01386	(13062606)
466544.92	3783060.29	0.01608	(15062206)
466564.92	3783060.29	0.01637	(15062206)
466584.92	3783060.29	0.01590	(15062206)
466604.92	3783060.29	0.02028	(16071006)
466624.92	3783060.29	0.01826	(13062006)
466644.92	3783060.29	0.01731	(11040607)
466664.92	3783060.29	0.01380	(11040607)
466684.92	3783060.29	0.01167	(13012217)
466704.92	3783060.29	0.01026	(13012217)
466724.92	3783060.29	0.00909	(13012217)
466744.92	3783060.29	0.00804	(16071506)
466764.92	3783060.29	0.00746	(16071506)
466784.92	3783060.29	0.00678	(16071506)
466804.92	3783060.29	0.00615	(16071506)
466824.92	3783060.29	0.00569	(15101707)
466844.92	3783060.29	0.00529	(15101707)
466864.92	3783060.29	0.00489	(15101707)
466524.92	3783080.29	0.01195	(15062206)
466544.92	3783080.29	0.01326	(15062206)
466564.92	3783080.29	0.01443	(15062206)
466584.92	3783080.29	0.01643	(16071006)
466604.92	3783080.29	0.01536	(13071506)
466624.92	3783080.29	0.01482	(13062006)
466644.92	3783080.29	0.01583	(13062006)
466664.92	3783080.29	0.01206	(11040607)
466684.92	3783080.29	0.00989	(13012217)
466704.92	3783080.29	0.00907	(13012217)
466724.92	3783080.29	0.00806	(13012217)
466744.92	3783080.29	0.00744	(13012217)
466764.92	3783080.29	0.00684	(16071506)
466784.92	3783080.29	0.00636	(16071506)
466804.92	3783080.29	0.00589	(16071506)
466824.92	3783080.29	0.00540	(16071506)
466844.92	3783080.29	0.00498	(15101707)
466864.92	3783080.29	0.00468	(15101707)
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	466544.92	3783100.29		0.01097	(15062206)
466564.92	3783100.29		0.01124	(16071006)	
	466584.92	3783100.29		0.01209	(16071006)
466604.92	3783100.29		0.01210	(13071506)	
	466624.92	3783100.29		0.01501	(13062006)
466644.92	3783100.29		0.01245	(13062006)	
	466664.92	3783100.29		0.01026	(11040607)
466684.92	3783100.29		0.00851	(11040607)	
	466704.92	3783100.29		0.00799	(13012217)
466724.92	3783100.29		0.00759	(13012217)	





466744.92	3783120.29	0.00640	(13012217)
466764.92	3783120.29	0.00597	(13012217)
466784.92	3783120.29	0.00551	(13012217)
466804.92	3783120.29	0.00509	(16071506)
466824.92	3783120.29	0.00487	(16071506)
466844.92	3783120.29	0.00460	(16071506)
466864.92	3783120.29	0.00431	(16071506)
466524.92	3783140.29	0.00773	(15062206)
466544.92	3783140.29	0.00786	(16061006)
466564.92	3783140.29	0.00867	(16071006)
466584.92	3783140.29	0.01073	(16071006)
466604.92	3783140.29	0.01144	(13071506)
466624.92	3783140.29	0.01015	(13062006)
466644.92	3783140.29	0.00950	(13062006)
466664.92	3783140.29	0.00846	(11040607)
466684.92	3783140.29	0.00739	(11040607)
466704.92	3783140.29	0.00618	(11040607)
466724.92	3783140.29	0.00593	(13012217)
466744.92	3783140.29	0.00576	(13012217)
466764.92	3783140.29	0.00553	(13012217)
466784.92	3783140.29	0.00520	(13012217)
466804.92	3783140.29	0.00482	(13012217)
466824.92	3783140.29	0.00449	(16071506)
466844.92	3783140.29	0.00433	(16071506)
466864.92	3783140.29	0.00412	(16071506)
466524.92	3783160.29	0.00670	(16061006)
466544.92	3783160.29	0.00731	(16071006)
466564.92	3783160.29	0.00870	(16071006)
466584.92	3783160.29	0.01110	(13071506)
466604.92	3783160.29	0.00924	(13072706)
466624.92	3783160.29	0.00885	(13062006)
466644.92	3783160.29	0.00854	(13062006)
466664.92	3783160.29	0.00775	(11040607)
466684.92	3783160.29	0.00687	(11040607)
466704.92	3783160.29	0.00582	(11040607)
466724.92	3783160.29	0.00519	(13012217)
466744.92	3783160.29	0.00517	(13012217)
466764.92	3783160.29	0.00506	(13012217)
466784.92	3783160.29	0.00486	(13012217)
466804.92	3783160.29	0.00459	(13012217)
466824.92	3783160.29	0.00428	(11092407)
466844.92	3783160.29	0.00409	(16071506)
466864.92	3783160.29	0.00399	(16071506)
466524.92	3783180.29	0.00629	(16061006)
466544.92	3783180.29	0.00705	(16071006)
466564.92	3783180.29	0.00870	(16071006)
466584.92	3783180.29	0.01098	(13071506)
466604.92	3783180.29	0.00792	(13072706)
466624.92	3783180.29	0.00775	(13062006)
466644.92	3783180.29	0.00758	(13062006)
466664.92	3783180.29	0.00703	(11040607)
466684.92	3783180.29	0.00634	(11040607)

466704.92	3783180.29	0.00548	(11040607)
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466764.92	3783180.29	0.00460	(13012217)
466784.92	3783180.29	0.00480	(13012217)
466804.92	3783180.29	0.00579	(13012217)
466824.92	3783180.29	0.00563	(13012217)
466844.92	3783180.29	0.00541	(11092407)
466864.92	3783180.29	0.00487	(16071506)
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466564.92	3783220.29	0.00658	(16071006)	
	466584.92	3783220.29	0.00772	(13071506)
466604.92	3783220.29	0.01024	(13062006)	
	466624.92	3783220.29	0.00652	(13062006)
466644.92	3783220.29	0.00621	(13062006)	
	466664.92	3783220.29	0.00589	(13062006)
466684.92	3783220.29	0.00544	(11040607)	
	466704.92	3783220.29	0.00489	(11040607)
466724.92	3783220.29	0.00426	(11040607)	
	466744.92	3783220.29	0.00409	(11040607)
466764.92	3783220.29	0.00499	(13012217)	
	466784.92	3783220.29	0.00467	(13012217)
466804.92	3783220.29	0.00446	(13012217)	
	466824.92	3783220.29	0.00430	(13012217)
466844.92	3783220.29	0.00420	(13012217)	
	466864.92	3783220.29	0.00469	(13012217)
466524.92	3783240.29	0.00545	(16071006)	
	466544.92	3783240.29	0.00566	(16071006)
466564.92	3783240.29	0.00580	(16071006)	
	466584.92	3783240.29	0.00668	(13071506)
466604.92	3783240.29	0.00839	(13072706)	
	466624.92	3783240.29	0.00745	(13062006)
466644.92	3783240.29	0.00580	(13062006)	
	466664.92	3783240.29	0.00547	(13062006)
466684.92	3783240.29	0.00510	(11040607)	
	466704.92	3783240.29	0.00466	(11040607)
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	466744.92	3783240.29	0.00507	(11040607)
466764.92	3783240.29	0.00425	(13012217)	
	466784.92	3783240.29	0.00415	(13012217)
466804.92	3783240.29	0.00407	(13012217)	
	466824.92	3783240.29	0.00402	(13012217)
466844.92	3783240.29	0.00418	(13012217)	
	466864.92	3783240.29	0.00444	(13012217)
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	466544.92	3783260.29	0.00513	(16071006)
466564.92	3783260.29	0.00519	(13071506)	
	466584.92	3783260.29	0.00597	(13071506)
466604.92	3783260.29	0.00688	(13072706)	
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466644.92	3783260.29	0.00575	(13062006)	
	466664.92	3783260.29	0.00515	(13062006)
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	466704.92	3783260.29	0.00461	(11040607)
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	466744.92	3783260.29	0.00454	(11040607)
466764.92	3783260.29	0.00374	(12121308)	
	466784.92	3783260.29	0.00371	(13012217)
466804.92	3783260.29	0.00373	(13012217)	
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466844.92	3783260.29	0.00427	(13012217)	

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465724.92	3781740.29		0.00065	(16062606)	
	465824.92	3781740.29		0.00067	(15033007)
465924.92	3781740.29		0.00066	(12112008)	
	466024.92	3781740.29		0.00068	(12112008)
466124.92	3781740.29		0.00069	(16100207)	
	466224.92	3781740.29		0.00079	(16100207)
466324.92	3781740.29		0.00085	(15071206)	



	465824.92	3781840.29	0.00073	(15033007)
465924.92	3781840.29	0.00075	(15033007)	
	466024.92	3781840.29	0.00075	(12112008)
466124.92	3781840.29	0.00073	(12112008)	
	466224.92	3781840.29	0.00086	(16100207)
466324.92	3781840.29	0.00094	(15071206)	
	466424.92	3781840.29	0.00094	(12040107)
466524.92	3781840.29	0.00093	(15071406)	
	466624.92	3781840.29	0.00095	(13051406)
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	466824.92	3781840.29	0.00096	(15071906)
466924.92	3781840.29	0.00090	(15071906)	
	467024.92	3781840.29	0.00087	(13053006)
467124.92	3781840.29	0.00086	(15051706)	
	467224.92	3781840.29	0.00080	(13061706)
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	467624.92	3781840.29	0.00052	(11061906)
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	467824.92	3781840.29	0.00054	(16070906)
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	465624.92	3781940.29	0.00065	(13052906)
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	466024.92	3781940.29	0.00083	(15033007)
466124.92	3781940.29	0.00085	(12112008)	
	466224.92	3781940.29	0.00091	(16100207)
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	466424.92	3781940.29	0.00105	(15071206)
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	466624.92	3781940.29	0.00108	(13051406)
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	466824.92	3781940.29	0.00109	(15071906)
466924.92	3781940.29	0.00097	(13053006)	
	467024.92	3781940.29	0.00095	(13053006)
467124.92	3781940.29	0.00095	(13061706)	
	467224.92	3781940.29	0.00082	(13032607)
467324.92	3781940.29	0.00083	(13032607)	
	467424.92	3781940.29	0.00073	(13032607)
467524.92	3781940.29	0.00060	(11061906)	
	467624.92	3781940.29	0.00058	(16070906)
467724.92	3781940.29	0.00062	(16070906)	
	467824.92	3781940.29	0.00061	(16070906)
465524.92	3782040.29	0.00068	(13071606)	
	465624.92	3782040.29	0.00072	(13071306)
465724.92	3782040.29	0.00075	(13052906)	
	465824.92	3782040.29	0.00081	(13052906)
465924.92	3782040.29	0.00090	(16062606)	
	466024.92	3782040.29	0.00097	(15033007)
466124.92	3782040.29	0.00096	(12112008)	



	466224.92	3782040.29		0.00094	(12112008)
466324.92	3782040.29		0.00113	(16100207)	
	466424.92	3782040.29		0.00122	(15071206)
466524.92	3782040.29		0.00121	(15071106)	
	466624.92	3782040.29		0.00123	(16032707)
466724.92	3782040.29		0.00114	(13051406)	
	466824.92	3782040.29		0.00124	(15071906)
466924.92	3782040.29		0.00113	(13053006)	
	467024.92	3782040.29		0.00111	(15051706)
467124.92	3782040.29		0.00103	(13061706)	



466624.92	3782140.29	0.00143	(16032707)
466724.92	3782140.29	0.00135	(15071906)
466824.92	3782140.29	0.00141	(15071906)
466924.92	3782140.29	0.00130	(13053006)
467024.92	3782140.29	0.00127	(13061706)
467124.92	3782140.29	0.00111	(13032607)
467224.92	3782140.29	0.00106	(13032607)
467324.92	3782140.29	0.00086	(13032607)
467424.92	3782140.29	0.00078	(16070906)
467524.92	3782140.29	0.00082	(16070906)
467624.92	3782140.29	0.00078	(16070906)
467724.92	3782140.29	0.00074	(13061806)
467824.92	3782140.29	0.00068	(13061806)
465524.92	3782240.29	0.00078	(15061806)
465624.92	3782240.29	0.00085	(13071606)
465724.92	3782240.29	0.00092	(13071606)
465824.92	3782240.29	0.00095	(13071306)
465924.92	3782240.29	0.00102	(13052906)
466024.92	3782240.29	0.00112	(13052906)
466124.92	3782240.29	0.00129	(15033007)
466224.92	3782240.29	0.00130	(12112008)
466324.92	3782240.29	0.00135	(16100207)
466424.92	3782240.29	0.00163	(15071206)
466524.92	3782240.29	0.00165	(15071106)
466624.92	3782240.29	0.00169	(16032707)
466724.92	3782240.29	0.00164	(15071906)
466824.92	3782240.29	0.00161	(15071906)
466924.92	3782240.29	0.00153	(15051706)
467024.92	3782240.29	0.00141	(13061706)
467124.92	3782240.29	0.00130	(13032607)
467224.92	3782240.29	0.00108	(13032607)
467324.92	3782240.29	0.00094	(16070906)
467424.92	3782240.29	0.00097	(16070906)
467524.92	3782240.29	0.00090	(16070906)
467624.92	3782240.29	0.00085	(13061806)
467724.92	3782240.29	0.00076	(13061806)
467824.92	3782240.29	0.00066	(13061806)
465524.92	3782340.29	0.00077	(15071306)
465624.92	3782340.29	0.00088	(15061806)
465724.92	3782340.29	0.00097	(15061806)
465824.92	3782340.29	0.00109	(13071606)
465924.92	3782340.29	0.00113	(13071306)
466024.92	3782340.29	0.00123	(13052906)
466124.92	3782340.29	0.00139	(16062606)
466224.92	3782340.29	0.00158	(15033007)
466324.92	3782340.29	0.00160	(12112008)
466424.92	3782340.29	0.00186	(16100207)
466524.92	3782340.29	0.00199	(12040107)
466624.92	3782340.29	0.00205	(16032707)
466724.92	3782340.29	0.00204	(15071906)
466824.92	3782340.29	0.00188	(13053006)
466924.92	3782340.29	0.00185	(13061706)

	467024.92	3782340.29		0.00162	(13032607)
467124.92	3782340.29		0.00140	(13032607)	
	467224.92	3782340.29		0.00116	(16070906)
467324.92	3782340.29		0.00118	(16070906)	
	467424.92	3782340.29		0.00108	(13061806)
467524.92	3782340.29		0.00099	(13061806)	
	467624.92	3782340.29		0.00085	(13061806)
467724.92	3782340.29		0.00072	(11062806)	
	467824.92	3782340.29		0.00066	(15073006)
465524.92	3782440.29		0.00083	(13071406)	



467424.92	3782440.29	0.00115	(13061806)
467524.92	3782440.29	0.00094	(11062806)
467624.92	3782440.29	0.00083	(15073006)
467724.92	3782440.29	0.00077	(15073006)
467824.92	3782440.29	0.00069	(15073006)
465524.92	3782540.29	0.00087	(16100407)
465624.92	3782540.29	0.00097	(16100407)
465724.92	3782540.29	0.00106	(13071406)
465824.92	3782540.29	0.00118	(15071306)
465924.92	3782540.29	0.00136	(15061806)
466024.92	3782540.29	0.00159	(13071606)
466124.92	3782540.29	0.00180	(13071606)
466224.92	3782540.29	0.00199	(13052906)
466324.92	3782540.29	0.00241	(16062606)
466424.92	3782540.29	0.00258	(12112008)
466524.92	3782540.29	0.00319	(15071206)
466624.92	3782540.29	0.00333	(16032707)
466724.92	3782540.29	0.00340	(15071906)
466824.92	3782540.29	0.00310	(13061706)
466924.92	3782540.29	0.00265	(13032607)
467024.92	3782540.29	0.00200	(16070906)
467124.92	3782540.29	0.00192	(16070906)
467224.92	3782540.29	0.00168	(13061806)
467324.92	3782540.29	0.00134	(13061806)
467424.92	3782540.29	0.00111	(15073006)
467524.92	3782540.29	0.00099	(15073006)
467624.92	3782540.29	0.00086	(15073006)
467724.92	3782540.29	0.00074	(15073006)
467824.92	3782540.29	0.00065	(15050306)
465524.92	3782640.29	0.00086	(12100507)
465624.92	3782640.29	0.00096	(13071906)
465724.92	3782640.29	0.00110	(16100407)
465824.92	3782640.29	0.00128	(16100407)
465924.92	3782640.29	0.00145	(16100407)
466024.92	3782640.29	0.00166	(15071306)
466124.92	3782640.29	0.00201	(15061806)
466224.92	3782640.29	0.00243	(13071606)
466324.92	3782640.29	0.00275	(13052906)
466424.92	3782640.29	0.00346	(15033007)
466524.92	3782640.29	0.00406	(16100207)
466624.92	3782640.29	0.00465	(16032707)
466724.92	3782640.29	0.00468	(15071906)
466824.92	3782640.29	0.00395	(13061706)
466924.92	3782640.29	0.00296	(16070906)
467024.92	3782640.29	0.00269	(13061806)
467124.92	3782640.29	0.00215	(13061806)
467224.92	3782640.29	0.00162	(15073006)
467324.92	3782640.29	0.00138	(15073006)
467424.92	3782640.29	0.00114	(15073006)
467524.92	3782640.29	0.00094	(15050306)
467624.92	3782640.29	0.00082	(15050306)
467724.92	3782640.29	0.00072	(15050306)

	467824.92	3782640.29		0.00066	(13032707)
465524.92	3782740.29		0.00092	(15062506)	
	465624.92	3782740.29		0.00103	(15062506)
465724.92	3782740.29		0.00115	(12100507)	
	465824.92	3782740.29		0.00130	(12100507)
465924.92	3782740.29		0.00147	(13071906)	
	466024.92	3782740.29		0.00180	(16100407)
466124.92	3782740.29		0.00219	(16100407)	
	466224.92	3782740.29		0.00263	(15071306)
466324.92	3782740.29		0.00344	(13071606)	





466224.92	3782840.29	0.00289	(12100507)
466324.92	3782840.29	0.00392	(16100407)
466424.92	3782840.29	0.00542	(15061806)
466924.92	3782840.29	0.00456	(15073006)
467024.92	3782840.29	0.00276	(13032707)
467124.92	3782840.29	0.00214	(16070806)
467224.92	3782840.29	0.00177	(16070806)
467324.92	3782840.29	0.00151	(16070806)
467424.92	3782840.29	0.00131	(16070806)
467524.92	3782840.29	0.00115	(16070806)
467624.92	3782840.29	0.00103	(16070806)
467724.92	3782840.29	0.00092	(16070806)
467824.92	3782840.29	0.00084	(16070806)
465524.92	3782940.29	0.00087	(13052006)
465624.92	3782940.29	0.00096	(13052006)
465724.92	3782940.29	0.00107	(13052006)
465824.92	3782940.29	0.00123	(13052006)
465924.92	3782940.29	0.00142	(13052006)
466024.92	3782940.29	0.00174	(12071406)
466124.92	3782940.29	0.00220	(12071406)
466224.92	3782940.29	0.00293	(12071406)
466324.92	3782940.29	0.00417	(12071406)
466424.92	3782940.29	0.00660	(12071406)
466924.92	3782940.29	0.00527	(16070806)
467024.92	3782940.29	0.00374	(16070806)
467124.92	3782940.29	0.00255	(16070806)
467224.92	3782940.29	0.00202	(16070806)
467324.92	3782940.29	0.00167	(16070806)
467424.92	3782940.29	0.00142	(16070806)
467524.92	3782940.29	0.00122	(16070806)
467624.92	3782940.29	0.00107	(16070806)
467724.92	3782940.29	0.00096	(16070806)
467824.92	3782940.29	0.00086	(16070806)
465524.92	3783040.29	0.00092	(13052006)
465624.92	3783040.29	0.00100	(13052006)
465724.92	3783040.29	0.00113	(13052006)
465824.92	3783040.29	0.00128	(13052006)
465924.92	3783040.29	0.00144	(13052006)
466024.92	3783040.29	0.00167	(13052006)
466124.92	3783040.29	0.00212	(16071706)
466224.92	3783040.29	0.00283	(16071706)
466324.92	3783040.29	0.00403	(16071706)
466424.92	3783040.29	0.00620	(16071706)
466924.92	3783040.29	0.00434	(16070106)
467024.92	3783040.29	0.00319	(16070106)
467124.92	3783040.29	0.00242	(16070106)
467224.92	3783040.29	0.00188	(16070106)
467324.92	3783040.29	0.00149	(16053106)
467424.92	3783040.29	0.00129	(16053106)
467524.92	3783040.29	0.00114	(16053106)
467624.92	3783040.29	0.00101	(16053106)
467724.92	3783040.29	0.00091	(16053106)

	467824.92	3783040.29	0.00082	(16053106)
465524.92	3783140.29	0.00089	(16071706)	
	465624.92	3783140.29	0.00102	(16071706)
465724.92	3783140.29	0.00120	(16071706)	
	465824.92	3783140.29	0.00145	(16071706)
465924.92	3783140.29	0.00161	(16071706)	
	466024.92	3783140.29	0.00179	(16071706)
466124.92	3783140.29	0.00203	(16071706)	
	466224.92	3783140.29	0.00249	(11101107)
466324.92	3783140.29	0.00306	(16050206)	



466224.92	3783240.29	0.00221	(13072306)
466324.92	3783240.29	0.00343	(13062606)
466424.92	3783240.29	0.00443	(15062206)
466924.92	3783240.29	0.00408	(11092407)
467024.92	3783240.29	0.00274	(16071506)
467124.92	3783240.29	0.00217	(15101707)
467224.92	3783240.29	0.00175	(15101707)
467324.92	3783240.29	0.00137	(16070106)
467424.92	3783240.29	0.00127	(16070106)
467524.92	3783240.29	0.00116	(16070106)
467624.92	3783240.29	0.00105	(16070106)
467724.92	3783240.29	0.00094	(16070106)
467824.92	3783240.29	0.00085	(16070106)
465524.92	3783340.29	0.00091	(16051206)
465624.92	3783340.29	0.00101	(11101107)
465724.92	3783340.29	0.00110	(11101107)
465824.92	3783340.29	0.00117	(11101107)
465924.92	3783340.29	0.00128	(15101502)
466024.92	3783340.29	0.00146	(16050206)
466124.92	3783340.29	0.00182	(13072306)
466224.92	3783340.29	0.00255	(13062606)
466324.92	3783340.29	0.00309	(15062206)
466424.92	3783340.29	0.00318	(16061006)
466524.92	3783340.29	0.00378	(16071006)
466624.92	3783340.29	0.00512	(13072706)
466724.92	3783340.29	0.00413	(11040607)
466824.92	3783340.29	0.00343	(12121308)
466924.92	3783340.29	0.00318	(13012217)
467024.92	3783340.29	0.00230	(16071506)
467124.92	3783340.29	0.00199	(16071506)
467224.92	3783340.29	0.00162	(15101707)
467324.92	3783340.29	0.00143	(15101707)
467424.92	3783340.29	0.00121	(15101707)
467524.92	3783340.29	0.00098	(15101707)
467624.92	3783340.29	0.00089	(16070106)
467724.92	3783340.29	0.00085	(16070106)
467824.92	3783340.29	0.00080	(16070106)
465524.92	3783440.29	0.00088	(11101107)
465624.92	3783440.29	0.00090	(16081423)
465724.92	3783440.29	0.00099	(15101502)
465824.92	3783440.29	0.00112	(16050206)
465924.92	3783440.29	0.00122	(16111420)
466024.92	3783440.29	0.00149	(13072306)
466124.92	3783440.29	0.00205	(13062606)
466224.92	3783440.29	0.00237	(15062206)
466324.92	3783440.29	0.00233	(15062206)
466424.92	3783440.29	0.00272	(16071006)
466524.92	3783440.29	0.00270	(13071506)
466624.92	3783440.29	0.00357	(13072706)
466724.92	3783440.29	0.00556	(11040607)
466824.92	3783440.29	0.00254	(13082524)
466924.92	3783440.29	0.00229	(13012217)

	467024.92	3783440.29		0.00204	(13012217)
467124.92	3783440.29		0.00169	(16071506)	
	467224.92	3783440.29		0.00155	(16071506)
467324.92	3783440.29		0.00129	(16071506)	
	467424.92	3783440.29		0.00117	(15101707)
467524.92	3783440.29		0.00105	(15101707)	
	467624.92	3783440.29		0.00091	(15101707)
467724.92	3783440.29		0.00076	(15101707)	
	467824.92	3783440.29		0.00068	(11062006)
465524.92	3783540.29		0.00081	(15101502)	



467424.92	3783540.29	0.00110	(16071506)
467524.92	3783540.29	0.00095	(15101707)
467624.92	3783540.29	0.00090	(15101707)
467724.92	3783540.29	0.00081	(15101707)
467824.92	3783540.29	0.00072	(15101707)
465524.92	3783640.29	0.00081	(16050206)
465624.92	3783640.29	0.00084	(16080106)
465724.92	3783640.29	0.00098	(13072306)
465824.92	3783640.29	0.00112	(13072306)
465924.92	3783640.29	0.00144	(13062606)
466024.92	3783640.29	0.00161	(15062206)
466124.92	3783640.29	0.00176	(15062206)
466224.92	3783640.29	0.00167	(16061006)
466324.92	3783640.29	0.00182	(16071006)
466424.92	3783640.29	0.00197	(16071006)
466524.92	3783640.29	0.00224	(13071506)
466624.92	3783640.29	0.00231	(13072706)
466724.92	3783640.29	0.00252	(13062006)
466824.92	3783640.29	0.00196	(11040607)
466924.92	3783640.29	0.00152	(11070924)
467024.92	3783640.29	0.00140	(13012217)
467124.92	3783640.29	0.00147	(13012217)
467224.92	3783640.29	0.00131	(11092407)
467324.92	3783640.29	0.00110	(12062006)
467424.92	3783640.29	0.00108	(16071506)
467524.92	3783640.29	0.00098	(16071506)
467624.92	3783640.29	0.00083	(16071506)
467724.92	3783640.29	0.00077	(15101707)
467824.92	3783640.29	0.00073	(15101707)
465524.92	3783740.29	0.00077	(16080106)
465624.92	3783740.29	0.00089	(13072306)
465724.92	3783740.29	0.00099	(13072306)
465824.92	3783740.29	0.00126	(13062606)
465924.92	3783740.29	0.00134	(13062606)
466024.92	3783740.29	0.00151	(15062206)
466124.92	3783740.29	0.00128	(15062206)
466224.92	3783740.29	0.00156	(16061006)
466324.92	3783740.29	0.00166	(16071006)
466424.92	3783740.29	0.00154	(16071006)
466524.92	3783740.29	0.00179	(13071506)
466624.92	3783740.29	0.00189	(13072706)
466724.92	3783740.29	0.00209	(13062006)
466824.92	3783740.29	0.00178	(11040607)
466924.92	3783740.29	0.00136	(13082524)
467024.92	3783740.29	0.00127	(11082521)
467124.92	3783740.29	0.00123	(13012217)
467224.92	3783740.29	0.00129	(13012217)
467324.92	3783740.29	0.00117	(11092407)
467424.92	3783740.29	0.00097	(12062006)
467524.92	3783740.29	0.00098	(16071506)
467624.92	3783740.29	0.00091	(16071506)
467724.92	3783740.29	0.00080	(16071506)

	467824.92	3783740.29		0.00068	(15101707)
465524.92	3783840.29		0.00082	(13072306)	
	465624.92	3783840.29		0.00087	(13072306)
465724.92	3783840.29		0.00110	(13062606)	
	465824.92	3783840.29		0.00118	(13062606)
465924.92	3783840.29		0.00131	(15062206)	
	466024.92	3783840.29		0.00120	(15062206)
466124.92	3783840.29		0.00125	(16061006)	
	466224.92	3783840.29		0.00137	(16061006)
466324.92	3783840.29		0.00147	(16071006)	





	465824.92	3783940.29	0.00115	(15062206)
465924.92	3783940.29	0.00110	(15062206)	
	466024.92	3783940.29	0.00097	(16061006)
466124.92	3783940.29	0.00121	(16061006)	
	466224.92	3783940.29	0.00129	(16071006)
466324.92	3783940.29	0.00127	(16071006)	
	466424.92	3783940.29	0.00118	(13090422)
466524.92	3783940.29	0.00141	(13071506)	
	466624.92	3783940.29	0.00147	(13072706)
466724.92	3783940.29	0.00164	(13062006)	
	466824.92	3783940.29	0.00156	(11040607)
466924.92	3783940.29	0.00116	(13090423)	
	467024.92	3783940.29	0.00110	(13082524)
467124.92	3783940.29	0.00104	(12092024)	
	467224.92	3783940.29	0.00098	(11080221)
467324.92	3783940.29	0.00104	(13012217)	
	467424.92	3783940.29	0.00105	(13012217)
467524.92	3783940.29	0.00096	(11092407)	
	467624.92	3783940.29	0.00080	(12062006)
467724.92	3783940.29	0.00080	(12062006)	
	467824.92	3783940.29	0.00081	(16071506)
465524.92	3784040.29	0.00088	(13062606)	
	465624.92	3784040.29	0.00093	(13062606)
465724.92	3784040.29	0.00101	(15062206)	
	465824.92	3784040.29	0.00101	(15062206)
465924.92	3784040.29	0.00084	(15082522)	
	466024.92	3784040.29	0.00101	(16061006)
466124.92	3784040.29	0.00109	(16061006)	
	466224.92	3784040.29	0.00120	(16071006)
466324.92	3784040.29	0.00106	(16071006)	
	466424.92	3784040.29	0.00108	(13071506)
466524.92	3784040.29	0.00128	(13071506)	
	466624.92	3784040.29	0.00134	(13072706)
466724.92	3784040.29	0.00149	(13062006)	
	466824.92	3784040.29	0.00146	(11040607)
466924.92	3784040.29	0.00109	(11040607)	
	467024.92	3784040.29	0.00102	(11080123)
467124.92	3784040.29	0.00097	(15073005)	
	467224.92	3784040.29	0.00093	(12081406)
467324.92	3784040.29	0.00087	(15082424)	
	467424.92	3784040.29	0.00097	(13012217)
467524.92	3784040.29	0.00095	(13012217)	
	467624.92	3784040.29	0.00087	(11092407)
467724.92	3784040.29	0.00073	(12062006)	
	467824.92	3784040.29	0.00074	(12062006)
465524.92	3784140.29	0.00084	(13062606)	
	465624.92	3784140.29	0.00089	(15062206)
465724.92	3784140.29	0.00093	(15062206)	
	465824.92	3784140.29	0.00080	(15062206)
465924.92	3784140.29	0.00083	(16061006)	
	466024.92	3784140.29	0.00098	(16061006)
466124.92	3784140.29	0.00101	(16071006)	

466224.92	3784140.29		0.00107	(16071006)
466324.92	3784140.29	0.00094		(15063020)
466424.92	3784140.29		0.00103	(13071506)
466524.92	3784140.29	0.00117		(13071506)
466624.92	3784140.29		0.00124	(13072706)
466724.92	3784140.29	0.00135		(13062006)
466824.92	3784140.29		0.00135	(11040607)
466924.92	3784140.29	0.00108		(11040607)
467024.92	3784140.29		0.00094	(13090423)
467124.92	3784140.29	0.00089		(11101523)



466624.92	3784240.29	0.00114	(13072706)
466724.92	3784240.29	0.00121	(13062006)
466824.92	3784240.29	0.00123	(11040607)
466924.92	3784240.29	0.00106	(11040607)
467024.92	3784240.29	0.00085	(13090423)
467124.92	3784240.29	0.00082	(13082524)
467224.92	3784240.29	0.00078	(11091301)
467324.92	3784240.29	0.00079	(12121308)
467424.92	3784240.29	0.00072	(11080221)
467524.92	3784240.29	0.00077	(13012217)
467624.92	3784240.29	0.00084	(13012217)
467724.92	3784240.29	0.00080	(11092407)
467824.92	3784240.29	0.00072	(11092407)
464524.92	3780740.29	0.00025	(13052906)
464924.92	3780740.29	0.00029	(16062606)
465324.92	3780740.29	0.00030	(12112008)
465724.92	3780740.29	0.00031	(16100207)
466124.92	3780740.29	0.00038	(15071206)
466524.92	3780740.29	0.00039	(16032707)
466924.92	3780740.29	0.00037	(15071906)
467324.92	3780740.29	0.00035	(13053006)
467724.92	3780740.29	0.00034	(13061706)
468124.92	3780740.29	0.00030	(13032607)
468524.92	3780740.29	0.00022	(11061906)
468924.92	3780740.29	0.00021	(16070906)
464524.92	3781140.29	0.00028	(12052806)
464924.92	3781140.29	0.00033	(13052906)
465324.92	3781140.29	0.00039	(15033007)
465724.92	3781140.29	0.00040	(12112008)
466124.92	3781140.29	0.00050	(15071206)
466524.92	3781140.29	0.00051	(16032707)
466924.92	3781140.29	0.00051	(15071906)
467324.92	3781140.29	0.00044	(13053006)
467724.92	3781140.29	0.00039	(13032607)
468124.92	3781140.29	0.00029	(11061906)
468524.92	3781140.29	0.00028	(16070906)
468924.92	3781140.29	0.00026	(16070906)
464524.92	3781540.29	0.00034	(15061806)
464924.92	3781540.29	0.00038	(13071606)
465324.92	3781540.29	0.00046	(13052906)
465724.92	3781540.29	0.00055	(15033007)
466124.92	3781540.29	0.00064	(16100207)
466524.92	3781540.29	0.00069	(16032707)
466924.92	3781540.29	0.00070	(15071906)
467324.92	3781540.29	0.00061	(13061706)
467724.92	3781540.29	0.00048	(13032607)
468124.92	3781540.29	0.00040	(16070906)
468524.92	3781540.29	0.00036	(13061806)
468924.92	3781540.29	0.00028	(11062806)
464524.92	3781940.29	0.00037	(13071406)
464924.92	3781940.29	0.00045	(15061806)
465324.92	3781940.29	0.00059	(13071606)

	468124.92	3781940.29		0.00051	(13061806)
468524.92	3781940.29		0.00035	(15073006)	
	468924.92	3781940.29		0.00029	(15073006)
464524.92	3782340.29		0.00037	(12100507)	
	464924.92	3782340.29		0.00050	(16100407)
465324.92	3782340.29		0.00068	(13071406)	
	468124.92	3782340.29		0.00051	(15073006)
468524.92	3782340.29		0.00036	(15050306)	
	468924.92	3782340.29		0.00033	(13032707)
464524.92	3782740.29		0.00043	(12071406)	



	464924.92	3783940.29	0.00053	(16050206)
465324.92	3783940.29	0.00065	(13072306)	
	468124.92	3783940.29	0.00055	(13072506)
468524.92	3783940.29	0.00051	(15101707)	
	468924.92	3783940.29	0.00038	(11062006)
464524.92	3784340.29	0.00037	(16050206)	
	464924.92	3784340.29	0.00051	(13072306)
465324.92	3784340.29	0.00070	(13062606)	
	465724.92	3784340.29	0.00063	(15082522)
466124.92	3784340.29	0.00092	(16071006)	
	466524.92	3784340.29	0.00096	(13071506)
466924.92	3784340.29	0.00102	(11040607)	
	467324.92	3784340.29	0.00074	(12121308)
467724.92	3784340.29	0.00077	(13012217)	
	468124.92	3784340.29	0.00059	(12062006)
468524.92	3784340.29	0.00049	(16071506)	
	468924.92	3784340.29	0.00040	(15101707)
464524.92	3784740.29	0.00039	(13072306)	
	464924.92	3784740.29	0.00051	(13062606)
465324.92	3784740.29	0.00053	(15062206)	
	465724.92	3784740.29	0.00063	(16061006)
466124.92	3784740.29	0.00058	(13090305)	
	466524.92	3784740.29	0.00068	(13072706)
466924.92	3784740.29	0.00080	(11040607)	
	467324.92	3784740.29	0.00055	(11101021)
467724.92	3784740.29	0.00049	(13081724)	
	468124.92	3784740.29	0.00052	(11092407)
468524.92	3784740.29	0.00040	(12062006)	
	468924.92	3784740.29	0.00040	(16071506)
464524.92	3785140.29	0.00040	(13062606)	
	464924.92	3785140.29	0.00044	(15062206)
465324.92	3785140.29	0.00038	(12081005)	
	465724.92	3785140.29	0.00051	(16071006)
466124.92	3785140.29	0.00047	(16042306)	
	466524.92	3785140.29	0.00053	(13072706)
466924.92	3785140.29	0.00058	(13062006)	
	467324.92	3785140.29	0.00042	(16092022)
467724.92	3785140.29	0.00036	(12121308)	
	468124.92	3785140.29	0.00032	(12081204)
468524.92	3785140.29	0.00031	(11092407)	
	468924.92	3785140.29	0.00025	(15073106)
463524.92	3779740.29	0.00015	(13052906)	
	464124.92	3779740.29	0.00017	(16062606)
464724.92	3779740.29	0.00018	(12112008)	
	465324.92	3779740.29	0.00018	(16100207)
465924.92	3779740.29	0.00023	(15071206)	
	466524.92	3779740.29	0.00024	(16032707)
467124.92	3779740.29	0.00023	(15071906)	
	467724.92	3779740.29	0.00021	(13053006)
468324.92	3779740.29	0.00019	(13061706)	
	468924.92	3779740.29	0.00017	(13032607)
469524.92	3779740.29	0.00012	(11061906)	



	470124.92	3779740.29		0.00014	(16070906)
463524.92	3780340.29		0.00017	(12052806)	
	464124.92	3780340.29		0.00020	(13052906)
464724.92	3780340.29		0.00024	(16062606)	
	465324.92	3780340.29		0.00024	(12112008)
465924.92	3780340.29		0.00031	(15071206)	
	466524.92	3780340.29		0.00031	(16032707)
467124.92	3780340.29		0.00031	(15071906)	
	467724.92	3780340.29		0.00028	(15051706)
468324.92	3780340.29		0.00024	(13032607)	



	470124.92	3782740.29	0.00022	(16070806)
463524.92	3783340.29	0.00027	(15010717)	
	464124.92	3783340.29	0.00037	(15010717)
469524.92	3783340.29	0.00024	(16012017)	
	470124.92	3783340.29	0.00018	(16012017)
463524.92	3783940.29	0.00028	(16051206)	
	464124.92	3783940.29	0.00038	(11101107)
469524.92	3783940.29	0.00025	(11082621)	
	470124.92	3783940.29	0.00028	(16070106)
463524.92	3784540.29	0.00020	(12080506)	
	464124.92	3784540.29	0.00032	(16050206)
469524.92	3784540.29	0.00034	(15101707)	
	470124.92	3784540.29	0.00018	(13101307)
463524.92	3785140.29	0.00024	(16080106)	
	464124.92	3785140.29	0.00030	(13072306)
469524.92	3785140.29	0.00026	(16071506)	
	470124.92	3785140.29	0.00016	(11082523)
463524.92	3785740.29	0.00021	(13072306)	
	464124.92	3785740.29	0.00027	(13062606)
464724.92	3785740.29	0.00027	(15091224)	
	465324.92	3785740.29	0.00031	(16061006)
465924.92	3785740.29	0.00033	(13082923)	
	466524.92	3785740.29	0.00036	(13072706)
467124.92	3785740.29	0.00035	(11040607)	
	467724.92	3785740.29	0.00025	(13082524)
468324.92	3785740.29	0.00022	(16083124)	
	468924.92	3785740.29	0.00021	(13012217)
469524.92	3785740.29	0.00019	(15073106)	
	470124.92	3785740.29	0.00015	(11082824)
463524.92	3786340.29	0.00021	(13062606)	
	464124.92	3786340.29	0.00021	(15062206)
464724.92	3786340.29	0.00022	(16061006)	
	465324.92	3786340.29	0.00026	(16071006)
465924.92	3786340.29	0.00020	(12072304)	
	466524.92	3786340.29	0.00023	(13072706)
467124.92	3786340.29	0.00022	(12072002)	
	467724.92	3786340.29	0.00021	(13090423)
468324.92	3786340.29	0.00019	(12092024)	
	468924.92	3786340.29	0.00017	(11080222)
469524.92	3786340.29	0.00015	(11092407)	
	470124.92	3786340.29	0.00013	(12082101)





\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* 5770 Industrial Project -  
DPM \*\*\* 11/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* UPdated  
\*\*\* 11:21:10

PAGE 59

\*\*\* MODELOPTs: NonDEFAULT CONC ELEV FASTALL URBAN ADJ\_U\*

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82  
Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 372 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used 0.50  
ME W187 372 MEOPEN: ADJ\_U\* Option for Stable Low Winds  
used in AERMET  
MX W438 8800 METQA: Convective Velocity Data Out-of-  
Range. KURDAT = 12010216  
MX W438 11536 METQA: Convective Velocity Data Out-of-  
Range. KURDAT = 12042516  
MX W420 16779 METQA: Wind Speed Out-of-Range. KURDAT  
= 12113003  
MX W450 26305 CHKDAT: Record Out of Sequence in  
Meteorological File at: 15010101  
MX W450 26305 CHKDAT: Record Out of Sequence in  
Meteorological File at: 1 year gap

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